

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: May 12, 2005, 18:55:15 ; Search time 171 Seconds  
(without alignments)  
1352.530 Million cell updates/sec

Title: US-09-943-780-69

Perfect score: 3135

Sequence: 1 MCSRVPLLLPLLLALLGPG.....PLMGFPGLQSLPHAKPYI 598

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 2105692

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1500 summaries

Database : A\_Geneseq\_16Dec04.\*

1: geneseqp1980s.\*

2: geneseqp1990s.\*

3: geneseqp2000s.\*

4: geneseqp2001s.\*

5: geneseqp2002s.\*

6: geneseqp2003as.\*

7: geneseqp2003bs.\*

8: geneseqp2004s.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	3135	100.0	598	2	AAY06484 Human tum
2	3135	100.0	598	3	AAB01322 Human PRO
3	3135	100.0	598	3	AAY93691 Amino aci
4	3135	100.0	598	5	AU83643 Human PRO
5	3135	100.0	598	6	ABU55931 Human sec
6	3135	100.0	598	6	ABU80790 Human PRO
7	3135	100.0	598	6	ABO33756 Novel hum
8	3135	100.0	598	6	ABU60241 Human PRO
9	3135	100.0	598	6	ABU64927 Human sec
10	3135	100.0	598	6	ABU58361 Human PRO
11	3135	100.0	598	6	ABU57247 Human PRO
12	3135	100.0	598	6	ABU56312 Human sec
13	3135	100.0	598	6	ABU60352 Novel hum
14	3135	100.0	598	6	ABU82099 Human PRO
15	3135	100.0	598	6	ABU11313 Human PRO
16	3135	100.0	598	6	ABU67132 Human PRO
17	3135	100.0	598	6	ABJ72279 Human PRO
18	3135	100.0	598	6	ABJ72407 Human PRO
19	3135	100.0	598	6	ABO34302 Human sec
20	3135	100.0	598	7	ABJ72109 Human mem
21	3135	100.0	598	7	ADB83594 Novel hum
22	3135	100.0	598	7	ADB80700 Novel hum
23	3135	100.0	598	7	ADB73241 Novel hum
24	3135	100.0	598	7	ADB78323 Novel hum
25	3135	100.0	598	7	ADB84971 Human PRO

26	3135	100.0	598	7	ADB78077	Novel hum
27	3135	100.0	598	7	ADB87143	Human PRO
28	3135	100.0	598	7	ADB84725	Human PRO
29	3135	100.0	598	7	ADB83840	Novel hum
30	3135	100.0	598	7	ADB72995	Novel hum
31	3135	100.0	598	7	ADC25825	Human sec
32	3135	100.0	598	7	ADC25583	Human sec
33	3135	100.0	598	7	ADC25704	Human sec
34	3135	100.0	598	7	ADC36833	Human PRO
35	3135	100.0	598	7	ADC21823	Human PRO
36	3135	100.0	598	7	ADC49854	Novel hum
37	3135	100.0	598	7	ADC49053	Novel hum
38	3135	100.0	598	7	ADC49570	Novel hum
39	3135	100.0	598	7	ADC47431	Novel hum
40	3135	100.0	598	7	ADC47176	Novel hum
41	3135	100.0	598	7	ADC78051	Novel hum
42	3135	100.0	598	7	ADD06286	Novel hum
43	3135	100.0	598	7	ADC77805	Novel hum
44	3135	100.0	598	7	ADD50768	Novel hum
45	3135	100.0	598	7	ADD51014	Novel hum
46	3135	100.0	598	7	ADD50495	Human PRO
47	3135	100.0	598	7	ADD50249	Human PRO
48	3135	100.0	598	7	ADD51260	Novel hum
49	3135	100.0	598	7	ADH27489	Human sec
50	3135	100.0	598	8	ADC48807	Novel hum
51	3135	100.0	598	8	ADE20978	Novel hum
52	3135	100.0	598	8	ADE05822	Human PRO
53	3135	100.0	598	8	ADD75051	Human PRO
54	3135	100.0	598	8	ADD75797	Novel hum
55	3135	100.0	598	8	ADD85029	Novel hum
56	3135	100.0	598	8	ADD86855	Novel hum
57	3135	100.0	598	8	ADE20732	Novel hum
58	3135	100.0	598	8	ADE39029	Novel hum
59	3135	100.0	598	8	ADE05576	Human PRO
60	3135	100.0	598	8	ADD73561	Human PRO
61	3135	100.0	598	8	ADD78401	Novel hum
62	3135	100.0	598	8	ADE21224	Novel hum
63	3135	100.0	598	8	ADD77339	Novel hum
64	3135	100.0	598	8	ADE20486	Novel hum
65	3135	100.0	598	8	ADD75551	Human PRO
66	3135	100.0	598	8	ADD74067	Human PRO
67	3135	100.0	598	8	ADD74313	Human PRO
68	3135	100.0	598	8	ADD76043	Novel hum
69	3135	100.0	598	8	ADD85535	Novel hum
70	3135	100.0	598	8	ADE05084	Human PRO
71	3135	100.0	598	8	ADD75297	Human PRO
72	3135	100.0	598	8	ADD76841	Novel hum
73	3135	100.0	598	8	ADD86609	Novel hum
74	3135	100.0	598	8	ADD78077	Novel hum
75	3135	100.0	598	8	ADE71538	Human sec
76	3135	100.0	598	8	ADD77585	Novel hum
77	3135	100.0	598	8	ADD77831	Novel hum
78	3135	100.0	598	8	ADD85289	Novel hum
79	3135	100.0	598	8	ADD73821	Human PRO
80	3135	100.0	598	8	ADD74559	Human PRO
81	3135	100.0	598	8	ADD77087	Novel hum
82	3135	100.0	598	8	ADD85781	Novel hum
83	3135	100.0	598	8	ADE05330	Human PRO
84	3135	100.0	598	8	ADD74805	Human PRO
85	3135	100.0	598	8	ADG05617	Novel hum
86	3135	100.0	598	8	ADG27171	Human PRO
87	3135	100.0	598	8	ADG11234	Novel hum
88	3135	100.0	598	8	ADG12013	Novel hum
89	3135	100.0	598	8	ADF94570	Novel hum
90	3135	100.0	598	8	ADG06666	Human PRO
91	3135	100.0	598	8	ADG63481	Human sec
92	3135	100.0	598	8	ADH39010	Novel hum
93	3135	100.0	598	8	ADH43210	Human sec
94	3135	100.0	598	8	ADG34100	Novel hum
95	3135	100.0	598	8	ADI33570	Human PRO
96	3135	100.0	598	8	ADH69664	Human PRO
97	3135	100.0	598	8	ADI29825	Novel hum
98	3135	100.0	598	8	ADM27222	Novel hum

99	3135	100.0	598	8	ADK66580	Human	PRO	AdK14849	Novel	hum
100	3135	100.0	598	8	ADN00448	Human	sec	AdC52344	Novel	hum
101	3126	99.7	598	2	AAy17831	Human	PRO	AdC14352	Novel	hum
102	3083.5	98.4	673	3	AAb07428	Amino	aci	AdD07884	Novel	hum
103	3083.5	98.4	673	4	AAb87533	Human	PRO	AdC81709	Human	PRO
104	3083.5	98.4	673	4	AAb65166	Human	PRO	AdD07351	Novel	hum
105	3083.5	98.4	673	5	AAU75266	Human	Sli	AdC82242	Human	PRO
106	3083.5	98.4	673	5	ABG95858	Human	sec	AdD08422	Novel	hum
107	3083.5	98.4	673	5	ABG78042	Human	leu	AdD06671	Novel	hum
108	3083.5	98.4	673	6	ABU57981	Human	PRO	AdC82918	Human	PRO
109	3083.5	98.4	673	6	ABU59059	Novel	hum	AdD55025	Human	PRO
110	3083.5	98.4	673	6	ABU82571	Human	sec	AdD36020	Novel	hum
111	3083.5	98.4	673	6	ABU60490	Human	sec	AdD55983	Human	PRO
112	3083.5	98.4	673	6	ABU13872	Human	PRO	AdD54421	Human	PRO
113	3083.5	98.4	673	6	ABU72457	Novel	hum	AdE26575	Novel	hum
114	3083.5	98.4	673	6	ABU90883	Novel	hum	AdE26042	Novel	hum
115	3083.5	98.4	673	6	ABO33942	Human	sec	AdF66979	Human	PRO
116	3083.5	98.4	673	6	ABU71959	Novel	hum	AdG01021	Novel	hum
117	3083.5	98.4	673	6	ABU71513	Human	sec	AdG08574	Novel	hum
118	3083.5	98.4	673	6	ABU72294	Human	PRO	AdF95195	Novel	hum
119	3083.5	98.4	673	6	ABU90967	Human	PRO	AdH24048	Novel	hum
120	3083.5	98.4	673	6	ABU59206	Human	sec	AdH34074	Novel	hum
121	3083.5	98.4	673	6	ABO25903	Human	PRO	AdH23907	Novel	hum
122	3083.5	98.4	673	6	ABO27288	Human	sec	AdH23878	Novel	hum
123	3083.5	98.4	673	6	ABU92483	Human	sec	AdG85282	Novel	hum
124	3083.5	98.4	673	6	ABU81153	Human	sec	AdH24558	Novel	hum
125	3083.5	98.4	673	6	ABO53268	Novel	hum	AdH37414	Human	sec
126	3083.5	98.4	673	6	ABU58912	Human	sec	AdH02003	Human	PRO
127	3083.5	98.4	673	6	ABU92290	Novel	hum	AdH37584	Human	sec
128	3083.5	98.4	673	6	ABU59355	Novel	hum	AdG85622	Novel	hum
129	3083.5	98.4	673	6	ABU98270	Novel	hum	AdH24218	Novel	hum
130	3083.5	98.4	673	6	ABU82275	Novel	hum	AdH38512	Novel	hum
131	3083.5	98.4	673	6	ABU82482	Novel	hum	AdG83633	Human	PRO
132	3083.5	98.4	673	6	ABU92121	Novel	hum	AdH29441	Novel	hum
133	3083.5	98.4	673	6	ABU96446	Human	PRO	AdH27557	Novel	hum
134	3083.5	98.4	673	6	ABU10827	Human	PRO	AdH37754	Human	sec
135	3083.5	98.4	673	6	ABU81579	Novel	hum	AdH37931	Human	sec
136	3083.5	98.4	673	6	ABU72116	Human	PRO	AdH57351	Novel	hum
137	3083.5	98.4	673	6	ABU88518	Human	sec	AdH53493	Novel	hum
138	3083.5	98.4	673	6	ABO34032	Human	PRO	AdH53663	Novel	hum
139	3083.5	98.4	673	6	ADBI17073	Human	tra	AdH51999	Novel	hum
140	3083.5	98.4	673	6	ADa37563	Human	sec	AdH49854	Novel	hum
141	3083.5	98.4	673	6	ADA21249	Human	sec	AdI25364	Novel	hum
142	3083.5	98.4	673	6	ABO44246	Human	sec	AdH90157	Novel	hum
143	3083.5	98.4	673	6	ADAI0036	Human	sec	AdI25534	Novel	hum
144	3083.5	98.4	673	6	ADAI19878	Novel	hum	AdI25534	Novel	hum
145	3083.5	98.4	673	6	ADBI17261	Human	tra	AdI35233	Human	PRO
146	3083.5	98.4	673	6	ADAI17580	Human	PRO	AdI03556	Novel	hum
147	3083.5	98.4	673	6	ADA27688	Human	sec	AdI11913	Human	PRO
148	3083.5	98.4	673	6	ADA20050	Novel	hum	AdH89987	Novel	hum
149	3083.5	98.4	673	6	ABO34174	Human	sec	AdH99725	Novel	hum
150	3083.5	98.4	673	6	ADA94268	Human	sec	AdH98388	Novel	hum
151	3083.5	98.4	673	6	ADA38493	Human	sec	AdI11063	Human	PRO
152	3083.5	98.4	673	6	ADA92614	Human	sec	AdI11573	Human	PRO
153	3083.5	98.4	673	6	ADA00347	Human	sec	AdH98218	Novel	hum
154	3083.5	98.4	673	7	ABO53118	Human	sec	AdH98558	Novel	hum
155	3083.5	98.4	673	7	ADA22175	Human	sec	AdH98048	Novel	hum
156	3083.5	98.4	673	7	ADAO22488	Human	sec	AdI03036	Novel	hum
157	3083.5	98.4	673	7	ADAO6341	Human	sec	AdI03386	Novel	hum
158	3083.5	98.4	673	7	ADA39034	Human	sec	AdI04781	Novel	hum
159	3083.5	98.4	673	7	ADB85589	Novel	hum	AdH78235	Human	PRO
160	3083.5	98.4	673	7	ADB96060	Human	PRO	AdI19579	Novel	hum
161	3083.5	98.4	673	7	ADB68268	Human	PRO	AdH90327	Novel	hum
162	3083.5	98.4	673	7	ADB68075	Human	PRO	AdI03046	Novel	hum
163	3083.5	98.4	673	7	ADB90892	Novel	hum	AdH77895	Human	PRO
164	3083.5	98.4	673	7	ADC57532	Human	PRO	AdH97878	Novel	hum
165	3083.5	98.4	673	7	ADC54896	Human	PRO	AdI01263	Novel	hum
166	3083.5	98.4	673	7	ADCI1763	Human	sec	AdI01958	Novel	hum
167	3083.5	98.4	673	7	ADC06972	Human	PRO	AdI03216	Novel	hum
168	3083.5	98.4	673	7	ADC56185	Human	PRO	AdI11403	Human	PRO
169	3083.5	98.4	673	7	ADCI17151	Mammalian		AdI02305	Novel	hum
170	3083.5	98.4	673	7	ADC07240	Human	sec	AdI11743	Human	PRO
171	3083.5	98.4	673	7	ADC11230	Human	sec	AdI05380	Novel	hum

245	3083.5	98.4	673	7	ADH79452	Adh79452	Novel hum	318	3083.5	98.4	673	8	ADK00901	Adk00901	Human PRO
246	3083.5	98.4	673	7	ADH19409	Adh19409	Novel hum	319	3083.5	98.4	673	8	ADK14422	Adk14422	Novel hum
247	3083.5	98.4	673	7	ADH05210	Adh05210	Novel hum	320	3083.5	98.4	673	8	ADM08071	Adm08071	Human PRO
248	3083.5	98.4	673	7	ADH79622	Adh79622	Novel hum	321	3083.5	98.4	673	8	ADR45587	Adr45587	Human leu
249	3083.5	98.4	673	7	ADH01448	Adh01448	Novel hum	322	3078.5	98.2	673	4	AB846689	Ab846689	Amino aci
250	3083.5	98.4	673	7	ADH01618	Adh01618	Novel hum	323	3078.5	98.2	673	7	ADP69108	Adp69108	Human MPS
251	3083.5	98.4	673	7	ADH01788	Adh01788	Novel hum	324	3078.5	98.2	676	8	ABO59449	Ab059449	Human gen
252	3083.5	98.4	673	7	ADH79792	Adh79792	Novel hum	325	2935.5	93.6	672	6	ADA57213	Ada57213	Human sec
253	3083.5	98.4	673	7	ADH04610	Adh04610	Novel hum	326	2935.5	93.6	672	6	ADA41092	Ada41092	Human sec
254	3083.5	98.4	673	7	ADH02746	Adh02746	Novel hum	327	2935.5	93.6	672	6	ABR47923	AbR47923	Human sec
255	3083.5	98.4	673	7	ADH78065	Adh78065	Human PRO	328	2935.5	93.6	673	3	AB383823	Ab383823	Human sec
256	3083.5	98.4	673	7	ADH25704	Adh25704	Novel hum	329	2935.5	93.6	723	3	AB384400	Ab384400	Fragment
257	3083.5	98.4	673	7	ADH25874	Adh25874	Novel hum	330	2845.5	90.8	630	5	AU75267	Au75267	Human Sli
258	3083.5	98.4	673	7	ADH65386	Adh65386	Novel hum	331	2712.5	86.5	611	3	AY66843	AY66843	Membrane-
259	3083.5	98.4	673	7	ADH98728	Adh98728	Novel hum	332	2490.5	79.4	673	8	ABG78046	Abg78046	Mouse leu
260	3083.5	98.4	673	7	ADH79969	Adh79969	Novel hum	333	2484.5	79.4	673	8	ADR45596	Adr45596	Human leu
261	3083.5	98.4	673	7	ADH93700	Adh93700	Novel hum	334	2484.5	79.2	673	6	ADA00753	Ada00753	Murine st
262	3083.5	98.4	673	8	ADC52154	Adc52154	Novel hum	335	1672.5	53.3	493	3	AB07431	Ab07431	A leucine
263	3083.5	98.4	673	8	ADH35178	Adh35178	Human PRO	336	1178.5	37.6	281	5	ABB72324	Abb72324	Rat prote
264	3083.5	98.4	673	8	ADGL11428	Adgl11428	Human PRO	337	997.5	31.8	311	7	AAO30403	Aao30403	Human sec
265	3083.5	98.4	673	8	ADH06586	Adh06586	Novel hum	338	980.5	31.3	307	6	ABR58506	AbR58506	Human sec
266	3083.5	98.4	673	8	ADH06416	Adh06416	Novel hum	339	471.5	15.0	117	7	AAO30821	Aao30821	Human cel
267	3083.5	98.4	673	8	ADG68837	Adg68837	Novel hum	340	360.5	11.5	635	5	AAE23980	Aae23980	Human LP2
268	3083.5	98.4	673	8	ADH27727	Adh27727	Novel hum	341	360.5	11.5	647	5	ABP70142	Abp70142	Human NOV
269	3083.5	98.4	673	8	ADH25068	Adh25068	Novel hum	342	359.5	11.5	635	6	AAO26256	Aao26256	MDDT rela
270	3083.5	98.4	673	8	ADH33700	Adh33700	Human PRO	343	357.5	11.4	778	5	ABP70144	Abp70144	Human NOV
271	3083.5	98.4	673	8	ADH02343	Adh02343	Human PRO	344	350.5	11.2	545	8	ADM09079	Adm09079	Human pha
272	3083.5	98.4	673	8	ADH07950	Adh07950	Novel hum	345	339.5	10.8	566	5	ABP70143	Abp70143	Human NOV
273	3083.5	98.4	673	8	ADG69347	Adg69347	Novel hum	346	338.5	10.8	551	5	AAE17484	Aae17484	Human leu
274	3083.5	98.4	673	8	ADH39168	Adh39168	Novel hum	347	337.5	10.7	618	7	ADI21104	Adi21104	Novel hum
275	3083.5	98.4	673	8	ADG83908	Adg83908	Human PRO	348	337.5	10.7	653	6	ADA23287	Ada23287	Human SEC
276	3083.5	98.4	673	8	ADH19298	Adh19298	Human sec	349	337.5	10.7	694	3	AA232033	Aa232033	Human Sli
277	3083.5	98.4	673	8	ADG85452	Adg85452	Novel hum	350	333.5	10.6	590	3	AA232034	Aa232034	Human Sli
278	3083.5	98.4	673	8	ADH06246	Adh06246	Novel hum	351	333.5	10.6	590	6	ADA23289	Ada23289	Human SEC
279	3083.5	98.4	673	8	ADH30076	Adh30076	Novel hum	352	332.5	10.6	526	4	ABG04827	Abg04827	Novel hum
280	3083.5	98.4	673	8	ADH24388	Adh24388	Novel hum	353	330.5	10.5	653	2	AA228806	Aa228806	cc359.4 s
281	3083.5	98.4	673	8	ADG69517	Adg69517	Novel hum	354	330.5	10.5	653	3	AA228806	Aa228806	Membrane-
282	3083.5	98.4	673	8	ADH07780	Adh07780	Novel hum	355	330.5	10.5	653	3	AA224073	Aa224073	Human PRO
283	3083.5	98.4	673	8	ADG85792	Adg85792	Novel hum	356	330.5	10.5	653	4	AAU12390	Aau12390	Human PRO
284	3083.5	98.4	673	8	ADH39338	Adh39338	Novel hum	357	330.5	10.5	653	4	AAE09438	Aae09438	Human sbg
285	3083.5	98.4	673	8	ADH33530	Adh33530	Human PRO	358	330.5	10.5	653	4	AAE65217	Aae65217	Human PRO
286	3083.5	98.4	673	8	ADH33870	Adh33870	Human PRO	359	330.5	10.5	653	6	ABU58032	Abu58032	Human PRO
287	3083.5	98.4	673	8	ADH01080	Adh01080	Human PRO	360	330.5	10.5	653	6	ABU59110	Abu59110	Novel hum
288	3083.5	98.4	673	8	ADG69687	Adg69687	Novel hum	361	330.5	10.5	653	6	ABU82622	Abu82622	Human sec
289	3083.5	98.4	673	8	ADH20791	Adh20791	Human sec	362	330.5	10.5	653	6	ABO17834	Ab017834	Novel hum
290	3083.5	98.4	673	8	ADH02173	Adh02173	Human PRO	363	330.5	10.5	653	6	ABU60541	Abu60541	Human sec
291	3083.5	98.4	673	8	ADG69177	Adg69177	Novel hum	364	330.5	10.5	653	6	ABU13923	Abu13923	Human PRO
292	3083.5	98.4	673	8	ADG85362	Adg85362	Novel hum	365	330.5	10.5	653	6	ABU81088	Abu81088	Human PRO
293	3083.5	98.4	673	8	ADH24898	Adh24898	Novel hum	366	330.5	10.5	653	6	ABU72508	Abu72508	Novel hum
294	3083.5	98.4	673	8	ADH39515	Adh39515	Novel hum	367	330.5	10.5	653	6	ABU66788	Abu66788	Human PRO
295	3083.5	98.4	673	8	ADH19831	Adh19831	Human sec	368	330.5	10.5	653	6	AAO23105	Aao23105	NAG14 'hu
296	3083.5	98.4	673	8	ADH02513	Adh02513	Human PRO	369	330.5	10.5	653	6	ABU59869	Abu59869	Novel sec
297	3083.5	98.4	673	8	ADG69007	Adg69007	Novel hum	370	330.5	10.5	653	6	ABU59257	Abu59257	Human sec
298	3083.5	98.4	673	8	ADH07610	Adh07610	Novel hum	371	330.5	10.5	653	6	ABO25954	Ab025954	Human PRO
299	3083.5	98.4	673	8	ADG86132	Adg86132	Novel hum	372	330.5	10.5	653	6	ABO25059	Ab025059	Human sec
300	3083.5	98.4	673	8	ADH24728	Adh24728	Novel hum	373	330.5	10.5	653	6	ABU58963	Abu58963	Human sec
301	3083.5	98.4	673	8	ADH25776	Adh25776	Novel hum	374	330.5	10.5	653	6	ABU92341	Abu92341	Novel hum
302	3083.5	98.4	673	8	ADH38342	Adh38342	Novel hum	375	330.5	10.5	653	6	ABU59406	Abu59406	Novel hum
303	3083.5	98.4	673	8	ADH57181	Adh57181	Novel hum	376	330.5	10.5	653	6	ABU67064	Abu67064	Human sec
304	3083.5	98.4	673	8	ADH52169	Adh52169	Novel hum	377	330.5	10.5	653	6	ABU92172	Abu92172	Novel hum
305	3083.5	98.4	673	8	ADH49535	Adh49535	Novel hum	378	330.5	10.5	653	6	ABU10878	Abu10878	Human PRO
306	3083.5	98.4	673	8	ADH90497	Adh90497	Novel hum	379	330.5	10.5	653	6	ABU81630	Abu81630	Novel hum
307	3083.5	98.4	673	8	ADH11233	Adh11233	Human PRO	380	330.5	10.5	653	6	ABU88569	Abu88569	Human sec
308	3083.5	98.4	673	8	ADH98898	Adh98898	Novel hum	381	330.5	10.5	653	6	ABO34083	Ab034083	Human PRO
309	3083.5	98.4	673	8	ADH02128	Adh02128	Novel hum	382	330.5	10.5	653	6	ADA45957	Ada45957	Novel hum
310	3083.5	98.4	673	8	ADH90667	Adh90667	Novel hum	383	330.5	10.5	653	6	ADA76388	Ada76388	Human PRO
311	3083.5	98.4	673	8	ADJ98542	Adj98542	Novel hum	384	330.5	10.5	653	6	ADA19038	Ada19038	Human PRO
312	3083.5	98.4	673	8	ADJ98712	Adj98712	Novel hum	385	330.5	10.5	653	6	ADA61661	Ada61661	Homo sapi
313	3083.5	98.4	673	8	ADH78871	Adh78871	Novel hum	386	330.5	10.5	653	6	ADB19446	Adb19446	Novel hum
314	3083.5	98.4	673	8	ADJ99105	Adj99105	Novel hum	387	330.5	10.5	653	6	ADB27987	Adb27987	Human PRO
315	3083.5	98.4	673	8	ADJ99275	Adj99275	Novel hum	388	330.5	10.5	653	6	ADA86466	Ada86466	Novel hum
316	3083.5	98.4	673	8	ADJ98893	Adj98893	Novel hum	389	330.5	10.5	653	6	ADB16030	Adb16030	Human PRO
317	3083.5	98.4	673	8	ADH79041	Adh79041	Novel hum	390	330.5	10.5	653	6	ADA37740	Ada37740	Human sec

391	330	10.5	653	6	ADA47816	Ada47816	Human	PRO	464	330	10.5	653	7	ADB86793	Adb86793	Human	PRO
392	330	10.5	653	6	ADA21426	Ada21426	Human	sec	465	330	10.5	653	7	ADB77398	Adb77398	Novel	hum
393	330	10.5	653	6	ADA10213	Ada10213	Human	sec	466	330	10.5	653	7	ADB34555	Adb34555	Human	PRO
394	330	10.5	653	6	ADA67611	Ada67611	Human	PRO	467	330	10.5	653	7	ADB35659	Adb35659	Human	PRO
395	330	10.5	653	6	ADB30618	Adb30618	Human	PRO	468	330	10.5	653	7	ADB34003	Adb34003	Human	PRO
396	330	10.5	653	6	ADA85914	Ada85914	Novel	hum	469	330	10.5	653	7	ADB35107	Adb35107	Human	PRO
397	330	10.5	653	6	ADA17757	Ada17757	Human	PRO	470	330	10.5	653	7	ADB36211	Adb36211	Human	PRO
398	330	10.5	653	6	ADA97126	Ada97126	Human	PRO	471	330	10.5	653	7	ADB46606	Adb46606	Novel	hum
399	330	10.5	653	6	ADA79430	Ada79430	Human	PRO	472	330	10.5	653	7	ADC57709	Adc57709	Human	PRO
400	330	10.5	653	6	ADA87569	Ada87569	Novel	hum	473	330	10.5	653	7	ADC55073	Adc55073	Human	PRO
401	330	10.5	653	6	ADB16771	Adb16771	Human	PRO	474	330	10.5	653	7	ADC11940	Adc11940	Human	sec
402	330	10.5	653	6	ADA27865	Ada27865	Human	sec	475	330	10.5	653	7	ADC56362	Adc56362	Human	PRO
403	330	10.5	653	6	ADA91863	Ada91863	Novel	hum	476	330	10.5	653	7	ADC07417	Adc07417	Human	sec
404	330	10.5	653	6	ADB14926	Adb14926	Human	PRO	477	330	10.5	653	7	ADC11407	Adc11407	Human	sec
405	330	10.5	653	6	ADB18887	Adb18887	Novel	hum	478	330	10.5	653	7	ADC50479	Adc50479	Novel	hum
406	330	10.5	653	6	ADA94102	Ada94102	Human	PRO	479	330	10.5	653	7	ADC72026	Adc72026	Novel	hum
407	330	10.5	653	6	ADB19998	Adb19998	Novel	hum	480	330	10.5	653	7	ADC60005	Adc60005	Novel	hum
408	330	10.5	653	6	ADB13310	Adb13310	Human	PRO	481	330	10.5	653	7	ADC53012	Adc53012	Novel	hum
409	330	10.5	653	6	ABO43367	Abc43367	Novel	hum	482	330	10.5	653	7	ADC57366	Adc57366	Novel	hum
410	330	10.5	653	6	ADA94445	Ada94445	Human	sec	483	330	10.5	653	7	ADC60557	Adc60557	Novel	hum
411	330	10.5	653	6	ADA74564	Ada74564	Human	PRO	484	330	10.5	653	7	ADC51032	Adc51032	Novel	hum
412	330	10.5	653	6	ADB24797	Adb24797	Human	PRO	485	330	10.5	653	7	ADC65559	Adc65559	Human	PRO
413	330	10.5	653	6	ADA82321	Ada82321	Human	PRO	486	330	10.5	653	7	ADC54657	Adc54657	Novel	hum
414	330	10.5	653	6	ADA75284	Ada75284	Human	PRO	487	330	10.5	653	7	ADC53618	Adc53618	Novel	hum
415	330	10.5	653	6	ADA85362	Ada85362	Novel	hum	488	330	10.5	653	7	ADC59141	Adc59141	Novel	hum
416	330	10.5	653	6	ADA84810	Ada84810	Novel	hum	489	330	10.5	653	7	ADC56019	Adc56019	Novel	hum
417	330	10.5	653	6	ADB30066	Adb30066	Human	PRO	490	330	10.5	653	7	ADC58589	Adc58589	Novel	hum
418	330	10.5	653	6	ADA80594	Ada80594	Human	PRO	491	330	10.5	653	7	ADC14529	Adc14529	Novel	hum
419	330	10.5	653	6	ADA75836	Ada75836	Human	PRO	492	330	10.5	653	7	ADD08061	Add08061	Novel	hum
420	330	10.5	653	6	ADA38670	Ada38670	Human	sec	493	330	10.5	653	7	ADD03263	Add03263	Novel	hum
421	330	10.5	653	6	ADA47061	Ada47061	Human	PRO	494	330	10.5	653	7	ADC90255	Adc90255	Novel	hum
422	330	10.5	653	6	ADB25357	Adb25357	Human	PRO	495	330	10.5	653	7	ADC81886	Adc81886	Human	PRO
423	330	10.5	653	6	ADA93533	Ada93533	Human	PRO	496	330	10.5	653	7	ADC69674	Adc69674	Human	PRO
424	330	10.5	653	6	ADB26883	Adb26883	Human	PRO	497	330	10.5	653	7	ADC48563	Adc48563	Human	PRO
425	330	10.5	653	6	ADB31170	Adb31170	Human	PRO	498	330	10.5	653	7	ADD10092	Add10092	Human	PRO
426	330	10.5	653	6	ADA92791	Ada92791	Human	sec	499	330	10.5	653	7	ADD07528	Add07528	Novel	hum
427	330	10.5	653	6	ADA61098	Ada61098	Homo sapi		500	330	10.5	653	7	ADD04667	Add04667	Novel	hum
428	330	10.5	653	6	ADB24245	Adb24245	Human	PRO	501	330	10.5	653	7	ADC82419	Adc82419	Human	PRO
429	330	10.5	653	6	ADA96574	Ada96574	Human	PRO	502	330	10.5	653	7	ADC80623	Adc80623	Novel	hum
430	330	10.5	653	6	ADA81146	Ada81146	Human	PRO	503	330	10.5	653	7	ADD11130	Add11130	Human	PRO
431	330	10.5	653	6	ADA96022	Ada96022	Human	PRO	504	330	10.5	653	7	ADC48011	Adc48011	Human	PRO
432	330	10.5	653	6	ADB26331	Adb26331	Human	PRO	505	330	10.5	653	7	ADD08599	Add08599	Novel	hum
433	330	10.5	653	6	ADB21816	Adb21816	Novel	hum	506	330	10.5	653	7	ADC80071	Adc80071	Novel	hum
434	330	10.5	653	7	ADA77595	Ada77595	Human	PRO	507	330	10.5	653	7	ADD06848	Add06848	Novel	hum
435	330	10.5	653	7	ADB18335	Adb18335	Human	PRO	508	330	10.5	653	7	ADD09540	Add09540	Human	PRO
436	330	10.5	653	7	ADA87018	Ada87018	Novel	hum	509	330	10.5	653	7	ADC83095	Adc83095	Human	PRO
437	330	10.5	653	7	ADA88121	Ada88121	Novel	hum	510	330	10.5	653	7	ADD41253	Add41253	Novel	hum
438	330	10.5	653	7	ADA46509	Ada46509	Novel	hum	511	330	10.5	653	7	ADD52392	Add52392	Human	PRO
439	330	10.5	653	7	ADB28539	Adb28539	Human	PRO	512	330	10.5	653	7	ADD53132	Add53132	Human	PRO
440	330	10.5	653	7	ADB29091	Adb29091	Human	PRO	513	330	10.5	653	7	ADD53684	Add53684	Novel	hum
441	330	10.5	653	7	ABO53169	Abc53169	Human	sec	514	330	10.5	653	7	ADD55202	Add55202	Human	PRO
442	330	10.5	653	7	ADA77043	Ada77043	Human	PRO	515	330	10.5	653	7	ADD56160	Add56160	Human	PRO
443	330	10.5	653	7	ADA22352	Ada22352	Human	sec	516	330	10.5	653	7	ADD51840	Add51840	Human	PRO
444	330	10.5	653	7	ADA88673	Ada88673	Novel	hum	517	330	10.5	653	7	ADD02639	Add02639	Human	PRO
445	330	10.5	653	7	ADA97678	Ada97678	Human	PRO	518	330	10.5	653	7	ADD02073	Add02073	Human	PRO
446	330	10.5	653	7	ADB27435	Adb27435	Human	PRO	519	330	10.5	653	7	ADD54255	Add54255	Novel	hum
447	330	10.5	653	7	ADB22368	Adb22368	Novel	hum	520	330	10.5	653	7	ADD54598	Add54598	Human	PRO
448	330	10.5	653	7	ABO22539	Abc22539	Human	sec	521	330	10.5	653	7	ADD92572	Add92572	Human	PRO
449	330	10.5	653	7	ADA06518	Ada06518	Human	sec	522	330	10.5	653	7	ADD91468	Add91468	Human	PRO
450	330	10.5	653	7	ADA39211	Ada39211	Human	sec	523	330	10.5	653	7	ADE04082	Ade04082	Human	PRO
451	330	10.5	653	7	ADA67059	Ada67059	Human	PRO	524	330	10.5	653	7	ADE26752	Ade26752	Novel	hum
452	330	10.5	653	7	ADB22920	Adb22920	Human	PRO	525	330	10.5	653	7	ADE32379	Ade32379	Novel	hum
453	330	10.5	653	7	ADB23693	Adb23693	Human	PRO	526	330	10.5	653	7	ADE22311	Ade22311	Human	PRO
454	330	10.5	653	7	ADA92415	Ada92415	Novel	hum	527	330	10.5	653	7	ADD79535	Add79535	Human	PRO
455	330	10.5	653	7	ADB15478	Adb15478	Human	PRO	528	330	10.5	653	7	ADE42071	Ade42071	Human	PRO
456	330	10.5	653	7	ADB38730	Adb38730	Novel	hum	529	330	10.5	653	7	ADE17888	Ade17888	Human	PRO
457	330	10.5	653	7	ADB96237	Adb96237	Human	PRO	530	330	10.5	653	7	ADD92020	Add92020	Human	PRO
458	330	10.5	653	7	ADB38178	Adb38178	Novel	hum	531	330	10.5	653	7	ADE33483	Ade33483	Novel	hum
459	330	10.5	653	7	ADB66650	Adb66650	Novel	hum	532	330	10.5	653	7	ADE34035	Ade34035	Novel	hum
460	330	10.5	653	7	ADB89730	Adb89730	Human	PRO	533	330	10.5	653	7	ADD80087	Add80087	Human	PRO
461	330	10.5	653	7	ADB90462	Adb90462	Human	PRO	534	330	10.5	653	7	ADD93124	Add93124	Human	PRO
462	330	10.5	653	7	ADB39563	Adb39563	Novel	hum	535	330	10.5	653	7	ADE19544	Ade19544	Human	PRO
463	330	10.5	653	7	ADB47186	Adb47186	Novel	hum	536	330	10.5	653	7	ADE18992	Ade18992	Human	PRO



537	330	10.5	653	7	AD843188	Ade43188	Human	PRO	610	330	10.5	653	8	ADG07268	Novel	hum
538	330	10.5	653	7	AD85977	Ade5977	Human	PRO	611	330	10.5	653	8	ADG07820	Novel	hum
539	330	10.5	653	7	AD822863	Ade22863	Human	PRO	612	330	10.5	653	8	ADG55315	Novel	hum
540	330	10.5	653	7	AD878981	Ade78981	Human	PRO	613	330	10.5	653	8	ADG60979	Novel	hum
541	330	10.5	653	7	AD826219	Ade26219	Novel	hum	614	330	10.5	653	8	ADG62083	Novel	hum
542	330	10.5	653	7	AD832931	Ade32931	Novel	hum	615	330	10.5	653	8	ADG82284	Human	PRO
543	330	10.5	653	7	AD842623	Ade42623	Human	PRO	616	330	10.5	653	8	ADG57523	Novel	hum
544	330	10.5	653	7	AD806639	Ade06639	Human	PRO	617	330	10.5	653	8	ADG56971	Novel	hum
545	330	10.5	653	7	AD896667	Ade96667	Human	PRO	618	330	10.5	653	8	ADG55867	Novel	hum
546	330	10.5	653	7	AD840951	Ade40951	Human	PRO	619	330	10.5	653	8	ADG58627	Novel	hum
547	330	10.5	653	7	AD804750	Ade04750	Human	PRO	620	330	10.5	653	8	ADG70993	Novel	hum
548	330	10.5	653	7	AD892879	Ade92879	Human	PRO	621	330	10.5	653	8	ADG58075	Novel	hum
549	330	10.5	653	7	AD867156	Ade67156	Human	PRO	622	330	10.5	653	8	ADG53659	Novel	hum
550	330	10.5	653	7	AD821588	Ade21588	Novel	hum	623	330	10.5	653	8	ADG71545	Novel	hum
551	330	10.5	653	7	AD823229	Ade23229	Novel	hum	624	330	10.5	653	8	ADG81732	Human	PRO
552	330	10.5	653	7	AD897564	Ade97564	Human	PRO	625	330	10.5	653	8	ADH19475	Human	PRO
553	330	10.5	653	7	AD808628	Ade08628	Human	PRO	626	330	10.5	653	8	ADH30694	Human	PRO
554	330	10.5	653	7	AD808076	Ade808076	Human	PRO	627	330	10.5	653	8	ADH12061	Novel	hum
555	330	10.5	653	7	ADH55368	Adh55368	Novel	hum	628	330	10.5	653	8	ADG52483	Novel	hum
556	330	10.5	653	7	ADH55920	Adh55920	Novel	hum	629	330	10.5	653	8	ADG54211	Novel	hum
557	330	10.5	653	7	ADH135410	Adi35410	Human	PRO	630	330	10.5	653	8	ADG81180	Human	PRO
558	330	10.5	653	7	ADH164139	Adi64139	Novel	hum	631	330	10.5	653	8	ADG56419	Novel	hum
559	330	10.5	653	7	ADH165088	Adi65088	Novel	hum	632	330	10.5	653	8	ADH12685	Novel	hum
560	330	10.5	653	7	ADH163587	Adi63587	Novel	hum	633	330	10.5	653	8	ADH20968	Human	sec
561	330	10.5	653	7	ADH82001	Adh82001	Novel	hum	634	330	10.5	653	8	ADG61531	Novel	hum
562	330	10.5	653	7	ADH99902	Adh99902	Novel	hum	635	330	10.5	653	8	ADH20008	Human	sec
563	330	10.5	653	7	ADH81449	Adh81449	Novel	hum	636	330	10.5	653	8	ADH28618	Human	PRO
564	330	10.5	653	7	ADH82618	Adh82618	Novel	hum	637	330	10.5	653	8	ADG54763	Novel	hum
565	330	10.5	653	7	ADH16017	Adh16017	Novel	hum	638	330	10.5	653	8	ADG59803	Novel	hum
566	330	10.5	653	7	ADH16646	Adh16646	Novel	hum	639	330	10.5	653	8	ADH181227	Human	PRO
567	330	10.5	653	7	ADH15465	Adh15465	Novel	hum	640	330	10.5	653	8	ADG09970	Novel	hum
568	330	10.5	653	7	ADH14913	Adh14913	Novel	hum	641	330	10.5	653	8	ADH15441	Novel	hum
569	330	10.5	653	8	ADH1175	Adh1175	Novel	hum	642	330	10.5	653	8	ADG09318	Novel	hum
570	330	10.5	653	8	ADH76623	Adh76623	Human	PRO	643	330	10.5	653	8	ADH14773	Novel	hum
571	330	10.5	653	8	ADH87987	Adh87987	Human	PRO	644	330	10.5	653	8	ADH18368	Novel	hum
572	330	10.5	653	8	ADH86391	Adh86391	Human	PRO	645	330	10.5	653	8	ADJ63649	Novel	hum
573	330	10.5	653	8	ADH75839	Ade75839	Human	PRO	646	330	10.5	653	8	ADJ77544	Human	PRO
574	330	10.5	653	8	ADH23415	Ade23415	Human	PRO	647	330	10.5	653	8	ADJ65666	Human	PRO
575	330	10.5	653	8	ADH23967	Ade23967	Human	PRO	648	330	10.5	653	8	ADH27802	Human	PRO
576	330	10.5	653	8	ADH24610	Ade24610	Human	PRO	649	330	10.5	653	8	ADH42526	Human	PRO
577	330	10.5	653	8	ADH87435	Adh87435	Human	PRO	650	330	10.5	653	8	ADH28388	Human	PRO
578	330	10.5	653	8	ADH89301	Ade89301	Human	PRO	651	330	10.5	653	8	ADH95870	Human	PRO
579	330	10.5	653	8	ADH18440	Ade18440	Human	PRO	652	330	10.5	653	8	ADH96422	Novel	hum
580	330	10.5	653	8	ADH88749	Ade88749	Human	PRO	653	329.5	10.5	775	6	ABU12069	Human	NOV
581	330	10.5	653	8	ADH94769	Ade94769	Human	PRO	654	329	10.5	649	5	ABG98014	Human	leu
582	330	10.5	653	8	ADH91180	Ade91180	Human	PRO	655	328.5	10.5	627	5	ABG34079	Human	PRO
583	330	10.5	653	8	ADH35355	Adf35355	Human	PRO	656	328.5	10.5	627	6	ADA01368	Human	PRO
584	330	10.5	653	8	ADH95321	Ade95321	Human	PRO	657	328.5	10.5	627	6	ADA43797	Human	sec
585	330	10.5	653	8	ADH93431	Ade93431	Human	PRO	658	328.5	10.5	627	6	ADA43565	Human	sec
586	330	10.5	653	8	ADH35012	Ade35012	Human	PRO	659	328.5	10.5	627	6	ADA01240	Human	PRO
587	330	10.5	653	8	ADH92327	Ade92327	Novel	hum	660	328.5	10.5	627	7	ADA01124	Human	sec
588	330	10.5	653	8	ADH90628	Ade90628	Human	PRO	661	328.5	10.5	627	7	ADA43681	Human	sec
589	330	10.5	653	8	ADH91775	Ade91775	Novel	hum	662	328.5	10.5	627	7	ADA06943	Human	PRO
590	330	10.5	653	8	ADH11605	Adg11605	Human	PRO	663	328.5	10.5	627	7	ADA08431	Novel	hum
591	330	10.5	653	8	ADG02354	Adg02354	Human	PRO	664	328.5	10.5	627	7	ADH99724	Human	PRO
592	330	10.5	653	8	ADG22140	Adg22140	Novel	hum	665	328.5	10.5	627	7	ADH87007	Human	PRO
593	330	10.5	653	8	ADG20210	Adg20210	Human	PRO	666	328.5	10.5	627	7	ADH66162	Human	sec
594	330	10.5	653	8	ADG98116	Adf98116	Human	PRO	667	328.5	10.5	627	7	ADH99840	Human	PRO
595	330	10.5	653	8	ADG24333	Adg24333	Novel	hum	668	328.5	10.5	627	7	ADH99495	Novel	hum
596	330	10.5	653	8	ADH98687	Adf98687	Human	PRO	669	328.5	10.5	627	7	ADH66046	Human	sec
597	330	10.5	653	8	ADG03518	Adg03518	Human	PRO	670	328.5	10.5	627	7	ADC23444	Human	tra
598	330	10.5	653	8	ADH99239	Adf99239	Human	PRO	671	328.5	10.5	627	7	ADC26137	Human	PRO
599	330	10.5	653	8	ADG16824	Adg16824	Human	PRO	672	328.5	10.5	627	7	ADH04964	Human	PRO
600	330	10.5	653	8	ADG05283	Adg05283	Human	PRO	673	328.5	10.5	627	7	ADH11270	Human	PRO
601	330	10.5	653	8	ADG19550	Adg19550	Human	PRO	674	328.5	10.5	627	7	ADH88201	Human	PRO
602	330	10.5	653	8	ADG13387	Adg13387	Human	PRO	675	328.5	10.5	627	7	ADH95496	Human	sec
603	330	10.5	653	8	ADG08444	Adg08444	Novel	hum	676	328.5	10.5	627	7	ADH06426	Human	PRO
604	330	10.5	653	8	ADG15614	Adg15614	Human	PRO	677	328.5	10.5	627	7	ADH38201	Human	PRO
605	330	10.5	653	8	ADH97012	Adf97012	Human	PRO	678	328.5	10.5	627	7	ADH88317	Human	PRO
606	330	10.5	653	8	ADG06197	Adg06197	Human	PRO	679	328.5	10.5	627	7	ADH90898	Human	sec
607	330	10.5	653	8	ADG23781	Adg23781	Novel	hum	680	328.5	10.5	627	7	ADH99453	Human	sec
608	330	10.5	653	8	ADG04070	Adg04070	Human	PRO	681	328.5	10.5	627	7	ADG06546	Human	PRO
609	330	10.5	653	8	ADG24971	Adg24971	Novel	hum	682	328.5	10.5	627	7	ADG05497	Human	PRO

683	328.5	10.5	627	7	ADG82498	Human	PRO	Adg82498	Human	PRO	756	321	10.2	628	8	ADH71652	Human	PRO	Adh71652	Human	PRO
684	328.5	10.5	627	8	ADH51751	Human	sec	Adh51751	Human	sec	757	321	10.2	628	8	ADH71654	Human	PRO	Adh71654	Human	PRO
685	328.5	10.5	627	8	ADH51867	Human	sec	Adh51867	Human	sec	758	321	10.2	628	8	ABO84502	Human	can	ABO84502	Human	can
686	328.5	10.5	627	8	ADH517725	Human	sec	Adh517725	Human	sec	759	321	10.2	628	8	ABO84503	Human	can	ABO84503	Human	can
687	328.5	10.5	627	8	ADH517609	Human	sec	Adh517609	Human	sec	760	321	10.2	628	8	ABO84501	Human	can	ABO84501	Human	can
688	328.5	10.5	627	8	ADH5195380	Human	sec	Adh5195380	Human	sec	761	321	10.2	762	6	ABP70928	Human	LP3	Abp70928	Human	LP3
689	328.5	10.5	627	8	ADH518080	Human	PRO	Adh518080	Human	PRO	762	321	10.2	797	8	ADI36917	Human	LRR	Adi36917	Human	LRR
690	328.5	10.5	627	8	ADH516169	Human	PRO	Adh516169	Human	PRO	763	320	10.2	660	2	RAY13349	Amino	aci	Ray13349	Amino	aci
691	328.5	10.5	627	8	ADH519492	Human	PRO	Adh519492	Human	PRO	764	320	10.2	660	3	ADC78348	Human	PRO	Adc78348	Human	PRO
692	328.5	10.5	627	8	ADH514296	Human	PRO	Adh514296	Human	PRO	765	320	10.2	660	4	AAB80217	Human	PRO	Ab80217	Human	PRO
693	328.5	10.5	627	8	ADH519893	Human	PRO	Adh519893	Human	PRO	766	320	10.2	660	4	AAB31208	Amino	aci	Aab31208	Amino	aci
694	328.5	10.5	627	8	ADH519758	Human	PRO	Adh519758	Human	PRO	767	320	10.2	660	4	AAB12346	Human	PRO	Aau12346	Human	PRO
695	328.5	10.5	627	8	ADH517336	Human	sec	Adh517336	Human	sec	768	320	10.2	660	5	ABB84839	Human	PRO	Abb84839	Human	PRO
696	328.5	10.5	627	8	ADH515444	Human	PRO	Adh515444	Human	PRO	769	320	10.2	660	5	ABB95445	Human	ang	Abb95445	Human	ang
697	328.5	10.5	627	8	ADH516053	Human	PRO	Adh516053	Human	PRO	770	320	10.2	660	6	ABO171595	Human	PRO	Abu171595	Human	PRO
698	328.5	10.5	627	8	ADH517964	Human	PRO	Adh517964	Human	PRO	771	320	10.2	660	6	ABO17790	Novel	hum	Abu17790	Novel	hum
699	328.5	10.5	627	8	ADH5164574	Human	PRO	Adh5164574	Human	PRO	772	320	10.2	660	6	ABO25179	Novel	hum	Abu25179	Novel	hum
700	328.5	10.5	627	8	ADH518909	Human	PRO	Adh518909	Human	PRO	773	320	10.2	660	6	ABO25179	Novel	hum	Abu25179	Novel	hum
701	328.5	10.5	627	8	ADH511983	Human	sec	Adh511983	Human	sec	774	320	10.2	660	6	ABU81044	Human	PRO	Abu81044	Human	PRO
702	328.5	10.5	627	8	ADH5191014	Human	sec	Adh5191014	Human	sec	775	320	10.2	660	6	ABU71896	Human	sec	Abu71896	Human	sec
703	328.5	10.5	627	8	ADH518213	Human	PRO	Adh518213	Human	PRO	776	320	10.2	660	6	ABO01779	Novel	hum	Abu01779	Novel	hum
704	328.5	10.5	627	8	ADH517493	Human	sec	Adh517493	Human	sec	777	320	10.2	660	6	ABU66744	Human	PRO	Abu66744	Human	PRO
705	328.5	10.5	627	8	ADH516309	Human	PRO	Adh516309	Human	PRO	778	320	10.2	660	6	ABU54352	Human	sec	Abu54352	Human	sec
706	328.5	10.5	627	8	ADH5190169	Human	sec	Adh5190169	Human	sec	779	320	10.2	660	6	ABU67297	Novel	hum	Abu67297	Novel	hum
707	328.5	10.5	627	8	ADH519677	Human	PRO	Adh519677	Human	PRO	780	320	10.2	660	6	AAO23116	FLRT2	'hu	Aao23116	FLRT2	'hu
708	328.5	10.5	627	8	ADH519608	Human	PRO	Adh519608	Human	PRO	781	320	10.2	660	6	ABO47367	Human	sec	Abu47367	Human	sec
709	328.5	10.5	627	8	ADH519213	Human	PRO	Adh519213	Human	PRO	782	320	10.2	660	6	ABU59825	Novel	sec	Abu59825	Novel	sec
710	328.5	10.5	627	8	ADH5189980	Human	PRO	Adh5189980	Human	PRO	783	320	10.2	660	6	ABO25015	Human	sec	Abu25015	Human	sec
711	328.5	10.5	627	8	ADH5119874	Human	PRO	Adh5119874	Human	PRO	784	320	10.2	660	6	ABU64504	Human	sec	Abu64504	Human	sec
712	328.5	10.5	627	8	ADH517452	Human	sec	Adh517452	Human	sec	785	320	10.2	660	6	ABU72065	Novel	hum	Abu72065	Novel	hum
713	328.5	10.5	627	8	ADH5165328	Human	PRO	Adh5165328	Human	PRO	786	320	10.2	660	6	ABU67350	Human	sec	Abu67350	Human	sec
714	328.5	10.5	627	8	ADH5193376	Human	PRO	Adh5193376	Human	PRO	787	320	10.2	660	6	ABU67166	Novel	hum	Abu67166	Novel	hum
715	328.5	10.5	627	8	ADH518561	Human	sec	Adh518561	Human	sec	788	320	10.2	660	6	ABO14870	Human	sec	Abu14870	Human	sec
716	328.5	10.5	627	8	ADG111114	Human	sec	Adg111114	Human	sec	789	320	10.2	660	6	ABU67020	Human	sec	Abu67020	Human	sec
717	328.5	10.5	627	8	ADH510998	Human	sec	Adh510998	Human	sec	790	320	10.2	660	6	ABU69627	Novel	hum	Abu69627	Novel	hum
718	328.5	10.5	627	8	ADH511526	Human	PRO	Adh511526	Human	PRO	791	320	10.2	660	6	ABU79808	Human	sec	Abu79808	Human	sec
719	328.5	10.5	627	8	ADH518774	Human	sec	Adh518774	Human	sec	792	320	10.2	660	6	ABO14809	Human	sec	Abu14809	Human	sec
720	328.5	10.5	627	8	ADH519409	Human	sec	Adh519409	Human	sec	793	320	10.2	660	6	ADA45869	Novel	hum	Ada45869	Novel	hum
721	328.5	10.5	627	8	ADH5123712	Human	sec	Adh5123712	Human	sec	794	320	10.2	660	6	ADA76300	Human	PRO	Ada76300	Human	PRO
722	328.5	10.5	627	8	ADH5127042	Human	sec	Adh5127042	Human	sec	795	320	10.2	660	6	ADB29233	Human	sec	Ada29233	Human	sec
723	328.5	10.5	627	8	ADH5183310	Novel	hum	Adh5183310	Novel	hum	796	320	10.2	660	6	ADA18950	Human	PRO	Ada18950	Human	PRO
724	328.5	10.5	627	8	ADH516926	Human	sec	Adh516926	Human	sec	797	320	10.2	660	6	ADA61573	Homo sapi		Ada61573	Homo sapi	
725	328.5	10.5	627	8	ADH518194	Novel	hum	Adh518194	Novel	hum	798	320	10.2	660	6	ADB19358	Novel	hum	Adb19358	Novel	hum
726	328.5	10.5	627	8	ADH518690	Human	sec	Adh518690	Human	sec	799	320	10.2	660	6	ADB27899	Human	PRO	Adb27899	Human	PRO
727	328.5	10.5	627	8	ADH513828	Human	sec	Adh513828	Human	sec	800	320	10.2	660	6	ADA86378	Novel	hum	Ada86378	Novel	hum
728	328.5	10.5	627	8	ADH40203	Human	PRO	Adh40203	Human	PRO	801	320	10.2	660	6	ADB15942	Human	PRO	Adb15942	Human	PRO
729	328.5	10.5	627	8	ADH40088	Human	PRO	Adh40088	Human	PRO	802	320	10.2	660	6	ADA47728	Human	PRO	Ada47728	Human	PRO
730	328.5	10.5	627	8	ADH511410	Human	PRO	Adh511410	Human	PRO	803	320	10.2	660	6	ADA18089	Human	sec	Ada18089	Human	sec
731	328.5	10.5	627	8	ADH512828	Human	sec	Adh512828	Human	sec	804	320	10.2	660	6	ABO32761	Human	sec	Abu32761	Human	sec
732	328.5	10.5	627	8	ADH43503	Novel	hum	Adh43503	Novel	hum	805	320	10.2	660	6	ADA67523	Human	PRO	Ada67523	Human	PRO
733	328.5	10.5	627	8	ADH51967	Novel	hum	Adh51967	Novel	hum	806	320	10.2	660	6	ADB30530	Human	PRO	Adb30530	Human	PRO
734	328.5	10.5	627	8	ADH49822	Novel	hum	Adh49822	Novel	hum	807	320	10.2	660	6	ADA85826	Novel	hum	Ada85826	Novel	hum
735	328.5	10.5	627	8	ADH512423	Novel	hum	Adh512423	Novel	hum	808	320	10.2	660	6	ADA97038	Human	PRO	Ada97038	Human	PRO
736	328.5	10.5	627	8	ADH512539	Novel	hum	Adh512539	Novel	hum	809	320	10.2	660	6	ADA79342	Human	PRO	Ada79342	Human	PRO
737	328.5	10.5	627	8	ADH518536	Novel	hum	Adh518536	Novel	hum	810	320	10.2	660	6	ADA87481	Novel	hum	Ada87481	Novel	hum
738	328.5	10.5	627	8	ADH51851	Novel	hum	Adh51851	Novel	hum	811	320	10.2	660	6	ADB16683	Human	PRO	Adb16683	Human	PRO
739	328.5	10.5	627	8	ADH519412	Novel	hum	Adh519412	Novel	hum	812	320	10.2	660	6	ABO34821	Human	PRO	Abu34821	Human	PRO
740	328.5	10.5	627	8	ADH113609	Novel	hum	Adh113609	Novel	hum	813	320	10.2	660	6	ADA16064	Human	sec	Ada16064	Human	sec
741	328.5	10.5	627	8	ADK00865	Human	PRO	Adk00865	Human	PRO	814	320	10.2	660	6	ADA91775	Novel	hum	Ada91775	Novel	hum
742	328.5	10.5	627	8	ADL08606	Human	sec	Adl08606	Human	sec	815	320	10.2	660	6	ADB14838	Human	PRO	Adb14838	Human	PRO
743	327.5	10.4	636	4	AAU32870	Novel	hum	Aau32870	Novel	hum	816	320	10.2	660	6	ADA47287	Human	sec	Ada47287	Human	sec
744	324	10.3	626	8	ABO84499	Mouse	can	Abu84499	Mouse	can	817	320	10.2	660	6	ADB18799	Novel	hum	Adb18799	Novel	hum
745	324	10.3	628	4	AG65805	Human	Leu	Ag65805	Human	Leu	818	320	10.2	660	6	ADA94014	Novel	hum	Ada94014	Novel	hum
746	322.5	10.3	810	7	ADN95165	Human	BEC	Adn95165	Human	BEC	819	320	10.2	660	6	ADB19910	Novel	hum	Adb19910	Novel	hum
747	322.5	10.3	811	6	ABR58642	Human	can	AbR58642	Human	can	820	320	10.2	660	6	ABD13222	Human	PRO	Abd13222	Human	PRO
748	322.5	10.3	811	6	AAO23114	Human	can	Aao23114	Human	can	821	320	10.2	660	6	ABO43323	Novel	hum	Abu43323	Novel	hum
749	322.5	10.3	811	7	ADN95110	Human	LFC	Adn95110	Human	LFC	822	320	10.2	660	6	ADA74476	Human	PRO			

829	320	10.2	660	6	AB017499	Human PRO	902	320	10.2	660	7	ADC60469	Novel hum
830	320	10.2	660	6	ADB29978	Human PRO	903	320	10.2	660	7	ADC50944	Novel hum
831	320	10.2	660	6	ADA80506	Human PRO	904	320	10.2	660	7	ADC65471	Human PRO
832	320	10.2	660	6	ADA75748	Human PRO	905	320	10.2	660	7	ADC54569	Novel hum
833	320	10.2	660	6	ADA46973	Human PRO	906	320	10.2	660	7	ADC53530	Novel hum
834	320	10.2	660	6	ADB25269	Human PRO	907	320	10.2	660	7	ADC59053	Novel hum
835	320	10.2	660	6	ADA93445	Human PRO	908	320	10.2	660	7	ADC55931	Novel hum
836	320	10.2	660	6	ADB26795	Human PRO	909	320	10.2	660	7	ADC58501	Novel hum
837	320	10.2	660	6	ADB31082	Human PRO	910	320	10.2	660	7	ADC12272	Human sec
838	320	10.2	660	6	ADA61010	Homo sapi	911	320	10.2	660	7	ADC03175	Novel hum
839	320	10.2	660	6	ADB24157	Human PRO	912	320	10.2	660	7	ADC90167	Novel hum
840	320	10.2	660	6	ADA96486	Human PRO	913	320	10.2	660	7	ADC69586	Human PRO
841	320	10.2	660	6	ADA81058	Human PRO	914	320	10.2	660	7	ADC48475	Human PRO
842	320	10.2	660	6	ADA95934	Human PRO	915	320	10.2	660	7	ADD10004	Human PRO
843	320	10.2	660	6	ADB26243	Human PRO	916	320	10.2	660	7	ADD04579	Novel hum
844	320	10.2	660	6	ADB21728	Novel hum	917	320	10.2	660	7	ADC80535	Novel hum
845	320	10.2	660	7	ADA77507	Human PRO	918	320	10.2	660	7	ADD11042	Human PRO
846	320	10.2	660	7	ADB18247	Human PRO	919	320	10.2	660	7	ADD10335	Human sec
847	320	10.2	660	7	ADA86930	Novel hum	920	320	10.2	660	7	ADC47923	Human PRO
848	320	10.2	660	7	ADA16488	Human sec	921	320	10.2	660	7	ADD04827	Human sec
849	320	10.2	660	7	ADA12917	Human sec	922	320	10.2	660	7	ADC79983	Novel hum
850	320	10.2	660	7	ADA41785	Human sec	923	320	10.2	660	7	ADD11295	Human sec
851	320	10.2	660	7	ADA88033	Novel hum	924	320	10.2	660	7	ADD09452	Human PRO
852	320	10.2	660	7	ADA46421	Novel hum	925	320	10.2	660	7	ADD03833	Human sec
853	320	10.2	660	7	ADA17132	Novel hum	926	320	10.2	660	7	ADD03409	Human sec
854	320	10.2	660	7	ADA42635	Human sec	927	320	10.2	660	7	ADD41165	Novel hum
855	320	10.2	660	7	ADB28451	Human PRO	928	320	10.2	660	7	ADD52304	Human PRO
856	320	10.2	660	7	ADB29003	Human PRO	929	320	10.2	660	7	ADD53044	Human PRO
857	320	10.2	660	7	ADA76955	Human PRO	930	320	10.2	660	7	ADD53596	Novel hum
858	320	10.2	660	7	ADA88585	Novel hum	931	320	10.2	660	7	ADD37088	Human sec
859	320	10.2	660	7	ADA97590	Human PRO	932	320	10.2	660	7	ADD51752	Human PRO
860	320	10.2	660	7	ADB27347	Human PRO	933	320	10.2	660	7	ADD02551	Human PRO
861	320	10.2	660	7	ADB22280	Novel hum	934	320	10.2	660	7	ADD01985	Human PRO
862	320	10.2	660	7	AB011986	Human sec	935	320	10.2	660	7	ADD54167	Novel hum
863	320	10.2	660	7	AB017560	Human PRO	936	320	10.2	660	7	ADD92484	Human PRO
864	320	10.2	660	7	ADA66971	Human PRO	937	320	10.2	660	7	ADD91380	Human PRO
865	320	10.2	660	7	ADB22832	Human PRO	938	320	10.2	660	7	ADE03994	Human PRO
866	320	10.2	660	7	ADB23605	Human PRO	939	320	10.2	660	7	ADE32291	Novel hum
867	320	10.2	660	7	ADA92337	Novel hum	940	320	10.2	660	7	ADE22223	Human PRO
868	320	10.2	660	7	ADB15390	Human PRO	941	320	10.2	660	7	ADD79447	Human PRO
869	320	10.2	660	7	ADB38642	Novel hum	942	320	10.2	660	7	ADB41983	Human PRO
870	320	10.2	660	7	ADB38090	Novel hum	943	320	10.2	660	7	ADE17800	Human PRO
871	320	10.2	660	7	ADB66562	Novel hum	944	320	10.2	660	7	ADD91932	Human PRO
872	320	10.2	660	7	ADB89642	Human PRO	945	320	10.2	660	7	ADE33395	Novel hum
873	320	10.2	660	7	ADB90374	Human PRO	946	320	10.2	660	7	ADE33947	Novel hum
874	320	10.2	660	7	ADB77554	Human sec	947	320	10.2	660	7	ADD79999	Human PRO
875	320	10.2	660	7	ADB39475	Novel hum	948	320	10.2	660	7	ADD93036	Human PRO
876	320	10.2	660	7	ADB74690	Human sec	949	320	10.2	660	7	ADE19456	Human PRO
877	320	10.2	660	7	ADB47098	Novel hum	950	320	10.2	660	7	ADE34661	Human sec
878	320	10.2	660	7	ADB86705	Human PRO	951	320	10.2	660	7	ADE18904	Human PRO
879	320	10.2	660	7	ADB77310	Novel hum	952	320	10.2	660	7	ADE43100	Human PRO
880	320	10.2	660	7	ADB34467	Human PRO	953	320	10.2	660	7	ADD95889	Human PRO
881	320	10.2	660	7	ADB35571	Human PRO	954	320	10.2	660	7	ADE22775	Human PRO
882	320	10.2	660	7	ADB33915	Human PRO	955	320	10.2	660	7	ADD78893	Human PRO
883	320	10.2	660	7	ADB35019	Human PRO	956	320	10.2	660	7	ADE32843	Novel hum
884	320	10.2	660	7	ADB36123	Human PRO	957	320	10.2	660	7	ADE42535	Human PRO
885	320	10.2	660	7	ADB46518	Novel hum	958	320	10.2	660	7	ADD80551	Human PRO
886	320	10.2	660	7	ADB28336	Human sec	959	320	10.2	660	7	ADD89579	Human PRO
887	320	10.2	660	7	ADC39536	Human sec	960	320	10.2	660	7	ADE40863	Human PRO
888	320	10.2	660	7	ADC40050	Human sec	961	320	10.2	660	7	ADE04662	Human PRO
889	320	10.2	660	7	ADC18878	Human sec	962	320	10.2	660	7	ADE92791	Human PRO
890	320	10.2	660	7	ADC34174	Human sec	963	320	10.2	660	7	ADG21500	Novel hum
891	320	10.2	660	7	ADC29229	Human sec	964	320	10.2	660	7	ADG23141	Novel hum
892	320	10.2	660	7	ADC28760	Human sec	965	320	10.2	660	7	ADF97476	Human PRO
893	320	10.2	660	7	ADC40645	Human sec	966	320	10.2	660	7	ADG80540	Human PRO
894	320	10.2	660	7	ADC19302	Human sec	967	320	10.2	660	7	ADG79988	Human PRO
895	320	10.2	660	7	ADC33750	Human sec	968	320	10.2	660	7	ADG63796	Human sec
896	320	10.2	660	7	ADC12820	Human sec	969	320	10.2	660	7	ADH59144	Human sec
897	320	10.2	660	7	ADC50391	Novel hum	970	320	10.2	660	7	ADH55280	Novel hum
898	320	10.2	660	7	ADC71938	Novel hum	971	320	10.2	660	7	ADH55832	Novel hum
899	320	10.2	660	7	ADC59917	Novel hum	972	320	10.2	660	7	AD137923	Human sec
900	320	10.2	660	7	ADC52924	Novel hum	973	320	10.2	660	7	AD165000	Novel hum
901	320	10.2	660	7	ADC57278	Novel hum	974	320	10.2	660	7	AD163499	Novel hum

975	320	10.2	660	7	ADH81913	Adh81913	Novel	hum	1048	320	10.2	660	8	ADG57987	Adg57987	Novel	hum
976	320	10.2	660	7	ADH81361	Adh81361	Novel	hum	1049	320	10.2	660	8	ADG53571	Adg53571	Novel	hum
977	320	10.2	660	7	ADJ26191	Adj26191	Human	sec	1050	320	10.2	660	8	ADG71457	Adg71457	Novel	hum
978	320	10.2	660	7	ADM82530	Adm82530	Novel	hum	1051	320	10.2	660	8	ADG81644	Adg81644	Human	PRO
979	320	10.2	660	7	ADN15929	Adn15929	Novel	hum	1052	320	10.2	660	8	ADH30606	Adh30606	Human	PRO
980	320	10.2	660	7	ADN16558	Adn16558	Novel	hum	1053	320	10.2	660	8	ADG63645	Adg63645	Human	sec
981	320	10.2	660	7	ADN15377	Adn15377	Novel	hum	1054	320	10.2	660	8	ADH11973	Adh11973	Novel	hum
982	320	10.2	660	7	ADN14825	Adn14825	Novel	hum	1055	320	10.2	660	8	ADG52395	Adg52395	Novel	hum
983	320	10.2	660	7	AD164051	Ad164051	Novel	hum	1056	320	10.2	660	8	ADG54123	Adg54123	Novel	hum
984	320	10.2	660	8	ADC81087	Adc81087	Novel	hum	1057	320	10.2	660	8	ADG81092	Adg81092	Human	PRO
985	320	10.2	660	8	ADE79106	Ade79106	Human	sec	1058	320	10.2	660	8	ADG56331	Adg56331	Novel	hum
986	320	10.2	660	8	ADJ76535	Adj76535	Human	PRO	1059	320	10.2	660	8	ADH12597	Adh12597	Novel	hum
987	320	10.2	660	8	ADD87899	Add87899	Human	PRO	1060	320	10.2	660	8	ADG61443	Adg61443	Novel	hum
988	320	10.2	660	8	ADD86303	Add86303	Human	PRO	1061	320	10.2	660	8	ADH28530	Adh28530	Human	PRO
989	320	10.2	660	8	ADE79530	Ade79530	Human	sec	1062	320	10.2	660	8	ADG54675	Adg54675	Novel	hum
990	320	10.2	660	8	ADE75751	Ade75751	Human	PRO	1063	320	10.2	660	8	ADG59715	Adg59715	Novel	hum
991	320	10.2	660	8	ADE73206	Ade73206	Human	sec	1064	320	10.2	660	8	ADH20340	Adh20340	Human	sec
992	320	10.2	660	8	ADE41296	Ade41296	Human	sec	1065	320	10.2	660	8	ADH43479	Adh43479	Human	PRO
993	320	10.2	660	8	ADE23327	Ade23327	Human	PRO	1066	320	10.2	660	8	ADH07195	Adh07195	Human	sec
994	320	10.2	660	8	ADE23879	Ade23879	Human	PRO	1067	320	10.2	660	8	ADH59740	Adh59740	Human	sec
995	320	10.2	660	8	ADE24522	Ade24522	Human	PRO	1068	320	10.2	660	8	ADH06768	Adh06768	Human	sec
996	320	10.2	660	8	ADD87347	Add87347	Human	PRO	1069	320	10.2	660	8	ADI181139	Adi181139	Human	PRO
997	320	10.2	660	8	AGE89213	Age89213	Human	PRO	1070	320	10.2	660	8	ADI18510	Adi18510	Human	sec
998	320	10.2	660	8	ADE41210	Ade41210	Human	sec	1071	320	10.2	660	8	ADI65230	Adi65230	Human	sec
999	320	10.2	660	8	ADE73741	Ade73741	Human	sec	1072	320	10.2	660	8	ADI37493	Adi37493	Human	sec
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1001	320	10.2	660	8	ADE88661	Ade88661	Human	PRO	1074	320	10.2	660	8	ADH97297	Adh97297	Human	sec
1002	320	10.2	660	8	ADE99295	Ade99295	Human	sec	1075	320	10.2	660	8	ADI15353	Adi15353	Novel	hum
1003	320	10.2	660	8	ADE94681	Ade94681	Human	PRO	1076	320	10.2	660	8	ADG09230	Adg09230	Novel	hum
1004	320	10.2	660	8	ADE91092	Ade91092	Human	PRO	1077	320	10.2	660	8	ADI14685	Adi14685	Novel	hum
1005	320	10.2	660	8	ADE95233	Ade95233	Human	PRO	1078	320	10.2	660	8	ADH60400	Adh60400	Human	sec
1006	320	10.2	660	8	ADE93343	Ade93343	Human	PRO	1079	320	10.2	660	8	ADI18280	Adi18280	Novel	hum
1007	320	10.2	660	8	ADF34924	Adf34924	Human	PRO	1080	320	10.2	660	8	ADJ99457	Adj99457	Human	sec
1008	320	10.2	660	8	ADE98414	Ade98414	Human	sec	1081	320	10.2	660	8	ADL08650	Adl08650	Human	sec
1009	320	10.2	660	8	ADE92239	Ade92239	Novel	hum	1082	320	10.2	660	8	ADM24995	Adm24995	Human	sec
1010	320	10.2	660	8	ADE90540	Ade90540	Human	PRO	1083	320	10.2	660	8	ADJ63561	Adj63561	Novel	hum
1011	320	10.2	660	8	ADE91687	Ade91687	Novel	hum	1084	320	10.2	660	8	ADM29741	Adm29741	Human	sec
1012	320	10.2	660	8	ADE98841	Ade98841	Human	sec	1085	320	10.2	660	8	ADJ77456	Adj77456	Human	PRO
1013	320	10.2	660	8	ADG40311	Adg40311	Human	sec	1086	320	10.2	660	8	ADK82824	Adk82824	Human	PRO
1014	320	10.2	660	8	ADF73705	Adf73705	Human	sec	1087	320	10.2	660	8	ADJ65578	Adj65578	Human	PRO
1015	320	10.2	660	8	ADG02266	Adg02266	Human	PRO	1088	320	10.2	660	8	ADM27714	Adm27714	Human	PRO
1016	320	10.2	660	8	ADG22052	Adg22052	Novel	hum	1089	320	10.2	660	8	ADM24238	Adm24238	Human	PRO
1017	320	10.2	660	8	ADG20122	Adg20122	Human	PRO	1090	320	10.2	660	8	ADO06063	Ado06063	Human	PRO
1018	320	10.2	660	8	ADF98028	Adf98028	Human	PRO	1091	320	10.2	660	8	ADM28300	Adm28300	Human	PRO
1019	320	10.2	660	8	ADG24245	Adg24245	Novel	hum	1092	320	10.2	660	8	ADRI0915	Adri0915	Human	sec
1020	320	10.2	660	8	ADF98599	Adf98599	Human	PRO	1093	320	10.2	660	8	ADRI7824	Adri7824	Human	sec
1021	320	10.2	660	8	ADG03430	Adg03430	Human	PRO	1094	320	10.2	660	8	ADI95782	Adi95782	Human	PRO
1022	320	10.2	660	8	ADF99151	Adf99151	Human	PRO	1095	320	10.2	660	8	ADI96334	Adi96334	Novel	hum
1023	320	10.2	660	8	ADG16736	Adg16736	Human	PRO	1096	320	10.2	660	8	ADI65657	Adi65657	Human	sec
1024	320	10.2	660	8	ADG05195	Adg05195	Human	PRO	1097	320	10.2	660	8	ADT03500	Adt03500	Human	sec
1025	320	10.2	660	8	ADG19462	Adg19462	Human	PRO	1098	320	10.2	660	8	ADS74463	Ads74463	Human	sec
1026	320	10.2	660	8	ADF73281	Adf73281	Human	sec	1099	317.5	10.1	713	4	AAE13006	Aae13006	Human	leu
1027	320	10.2	660	8	ADG13299	Adg13299	Human	PRO	1100	316.5	10.1	713	5	AAU91335	Aau91335	Human	nov
1028	320	10.2	660	8	ADG08356	Adg08356	Novel	hum	1101	316.5	10.1	713	5	ABG97991	Abg97991	Human	nov
1029	320	10.2	660	8	ADG15526	Adg15526	Human	PRO	1102	316.5	10.1	713	6	ABU52381	Abu52381	Human	GPC
1030	320	10.2	660	8	ADF96924	Adf96924	Human	PRO	1103	313.5	10.0	656	5	AAU91341	Aau91341	Human	NOV
1031	320	10.2	660	8	ADG06109	Adg06109	Human	PRO	1104	313.5	10.0	713	8	ADL24097	Adl24097	Human	NOV
1032	320	10.2	660	8	ADG23693	Adg23693	Novel	hum	1105	312	10.0	592	4	AAE09437	Aae09437	Human	sbg
1033	320	10.2	660	8	ADG03982	Adg03982	Human	PRO	1106	312	10.0	592	4	AAE25351	Aae25351	Human	LP
1034	320	10.2	660	8	ADG24883	Adg24883	Novel	hum	1107	312	10.0	592	5	AAU91329	Aau91329	Human	nov
1035	320	10.2	660	8	ADG07180	Adg07180	Novel	hum	1108	312	10.0	592	5	ABP60996	Abp60996	Novel	hum
1036	320	10.2	660	8	ADG07732	Adg07732	Novel	hum	1109	312	10.0	592	5	AAU79167	Aau79167	Human	leu
1037	320	10.2	660	8	ADG55227	Adg55227	Novel	hum	1110	312	10.0	592	6	ABG74693	Abg74693	Human	GdD
1038	320	10.2	660	8	ADG60891	Adg60891	Novel	hum	1111	312	10.0	592	7	ADE03417	Ade03417	Human	Imm
1039	320	10.2	660	8	ADG61995	Adg61995	Novel	hum	1112	312	10.0	608	5	ABG61770	Abg61770	Novel	leu
1040	320	10.2	660	8	ADG92124	Adg92124	Human	sec	1113	311	9.9	634	5	ABG97967	Abg97967	Human	ner
1041	320	10.2	660	8	ADG82196	Adg82196	Human	PRO	1114	310.5	9.9	420	6	ABR55628	Abr55628	Amino	aci
1042	320	10.2	660	8	ADG57435	Adg57435	Novel	hum	1115	310.5	9.9	674	6	AAO23115	Aao23115	FLRT1	'hu
1043	320	10.2	660	8	ADG56883	Adg56883	Novel	hum	1116	310.5	9.9	674	8	ADH17606	Adh17606	Human	NOV
1044	320	10.2	660	8	ADG55779	Adg55779	Novel	hum	1117	310.5	9.9	674	8	ADH17628	Adh17628	Human	NOV
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1046	320	10.2	660	8	ADG70905	Adg70905	Novel	hum	1119	310.5	9.9	674	8	ADH17634	Adh17634	Human	NOV
1047	320	10.2	660	8	ADG92551	Adg92551	Human	sec	1120	310.5	9.9	674	8	ADH17632	Adh17632	Human	NOV

1121	309	9.9	585	6	ABO27346	Human sec	1194	309	9.9	649	6	ABR67962	Human sec
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1123	309	9.9	649	4	AAU29215	Human PRO	1196	309	9.9	649	6	ABR68572	Human sec
1124	309	9.9	649	4	AA370533	Human PRO	1197	309	9.9	649	6	ABR71984	Human sec
1125	309	9.9	649	4	AA370531	Human PRO	1198	309	9.9	649	6	ABR85464	Human PRO
1126	309	9.9	649	5	ABG95916	Human sec	1199	309	9.9	649	6	ABU89154	Human sec
1127	309	9.9	649	5	ABR84953	Human PRO	1200	309	9.9	649	6	ABU83234	Human sec
1128	309	9.9	649	5	ABR70109	Human NOV	1201	309	9.9	649	6	ABU95090	Novel hum
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1130	309	9.9	649	5	ABU58591	Human PRO	1203	309	9.9	649	6	ABU84149	Human sec
1131	309	9.9	649	6	ABU88139	Novel hum	1204	309	9.9	649	6	ABU93800	Novel hum
1132	309	9.9	649	6	ABU84454	Human sec	1205	309	9.9	649	6	ABR65045	Human sec
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1136	309	9.9	649	6	ABU82897	Human PRO	1209	309	9.9	649	6	ABU57122	Human PRO
1137	309	9.9	649	6	ABU90018	Novel hum	1210	309	9.9	649	6	ABU86074	Novel hum
1138	309	9.9	649	6	ABR68267	Human sec	1211	309	9.9	649	6	ABU82361	Novel hum
1139	309	9.9	649	6	ABU96320	Novel hum	1212	309	9.9	649	6	ABU87372	Human PRO
1140	309	9.9	649	6	ABU92751	Human sec	1213	309	9.9	649	6	ABU83844	Human sec
1141	309	9.9	649	6	ABO08828	Human sec	1214	309	9.9	649	6	ABO08218	Human PRO
1142	309	9.9	649	6	ABO02880	Human sec	1215	309	9.9	649	6	ABU92541	Human sec
1143	309	9.9	649	6	ABR75034	Human sec	1216	309	9.9	649	6	ABU81929	Novel hum
1144	309	9.9	649	6	ABR94796	Human sec	1217	309	9.9	649	6	ABU66093	Novel hum
1145	309	9.9	649	6	ABU85769	Human PRO	1218	309	9.9	649	6	ABU81211	Human sec
1146	309	9.9	649	6	ABU98929	Novel hum	1219	309	9.9	649	6	ABR59922	Human sec
1147	309	9.9	649	6	ABU98144	Novel hum	1220	309	9.9	649	6	ABU94110	Novel hum
1148	309	9.9	649	6	ABU91850	Novel hum	1221	309	9.9	649	6	ABU99963	Novel hum
1149	309	9.9	649	6	ABU89543	Human PRO	1222	309	9.9	649	6	ABR66633	Human sec
1150	309	9.9	649	6	ABU86384	Human sec	1223	309	9.9	649	6	ABR91051	Human sec
1151	309	9.9	649	6	ABU67597	Human sec	1224	309	9.9	649	6	ABO53325	Novel hum
1152	309	9.9	649	6	ABU80625	Human PRO	1225	309	9.9	649	6	ABU94478	Human PRO
1153	309	9.9	649	6	ABU90941	Novel hum	1226	309	9.9	649	6	ABU79360	Human PRO
1154	309	9.9	649	6	ABO34000	Human sec	1227	309	9.9	649	6	ABU86689	Human sec
1155	309	9.9	649	6	ABR99543	Human sec	1228	309	9.9	649	6	ABU86994	Novel hum
1156	309	9.9	649	6	ABR98933	Human sec	1229	309	9.9	649	6	ABU94783	Human PRO
1157	309	9.9	649	6	ABO16456	Human sec	1230	309	9.9	649	6	ABO04710	Human PRO
1158	309	9.9	649	6	ABR92356	Human sec	1231	309	9.9	649	6	ABR70459	Human sec
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1160	309	9.9	649	6	ABR78418	Human sec	1233	309	9.9	649	6	ABR66023	Human sec
1161	309	9.9	649	6	ABU72017	Novel hum	1234	309	9.9	649	6	ABR64740	Human sec
1162	309	9.9	649	6	ABU85154	Novel hum	1235	309	9.9	649	6	ABU79665	Human PRO
1163	309	9.9	649	6	ABO00293	Novel hum	1236	309	9.9	649	6	ABU93056	Human sec
1164	309	9.9	649	6	ABO11625	Human sec	1237	309	9.9	649	6	ABU96015	Human PRO
1165	309	9.9	649	6	ABO02270	Human sec	1238	309	9.9	649	6	ABU91235	Novel hum
1166	309	9.9	649	6	ABU88844	Novel hum	1239	309	9.9	649	6	ABU90328	Novel hum
1167	309	9.9	649	6	ABU83539	Human sec	1240	309	9.9	649	6	ABO09743	Human sec
1168	309	9.9	649	6	ABO06340	Novel hum	1241	309	9.9	649	6	ABO11015	Human sec
1169	309	9.9	649	6	ABR59376	Human sec	1242	309	9.9	649	6	ABR71069	Human sec
1170	309	9.9	649	6	ABO09438	Human sec	1243	309	9.9	649	6	ABU98328	Novel hum
1171	309	9.9	649	6	ABO19302	Novel hum	1244	309	9.9	649	6	ABU87677	Human PRO
1172	309	9.9	649	6	ABO11320	Human sec	1245	309	9.9	649	6	ABU91545	Human PRO
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1174	309	9.9	649	6	ABO16151	Human sec	1247	309	9.9	649	6	ABU84759	Human sec
1175	309	9.9	649	6	ABO13857	Human sec	1248	309	9.9	649	6	ABR69849	Human sec
1176	309	9.9	649	6	ABU71571	Human sec	1249	309	9.9	649	6	ABU80226	Human PRO
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1178	309	9.9	649	6	ABO07608	Human PRO	1251	309	9.9	649	6	ABU93495	Human PRO
1179	309	9.9	649	6	ABO03795	Human sec	1252	309	9.9	649	6	ABO10048	Human sec
1180	309	9.9	649	6	ABR67243	Human sec	1253	309	9.9	649	6	ABO09133	Human sec
1181	309	9.9	649	6	ABO15846	Human sec	1254	309	9.9	649	6	ABU96504	Human PRO
1182	309	9.9	649	6	ABU56127	Human sec	1255	309	9.9	649	6	ABU10701	Human sec
1183	309	9.9	649	6	ABU72352	Human PRO	1256	309	9.9	649	6	ABU72174	Human PRO
1184	309	9.9	649	6	ABU65455	Human PRO	1257	309	9.9	649	6	ABU95710	Human PRO
1185	309	9.9	649	6	ABU95400	Novel hum	1258	309	9.9	649	6	ABU96919	Novel hum
1186	309	9.9	649	6	ABU71303	Human PRO	1259	309	9.9	649	6	ABR70764	Human sec
1187	309	9.9	649	6	ABO07913	Human PRO	1260	309	9.9	649	6	ABO05115	Novel hum
1188	309	9.9	649	6	ABR70154	Human sec	1261	309	9.9	649	6	ABO08523	Human sec
1189	309	9.9	649	6	ABR69487	Human sec	1262	309	9.9	649	6	ABO05730	Human sec
1190	309	9.9	649	6	ABO01628	Human PRO	1263	309	9.9	649	6	ABR74119	Human sec
1191	309	9.9	649	6	ABU81430	Human PRO	1264	309	9.9	649	6	ABR95711	Human sec
1192	309	9.9	649	6	ABR60227	Human PRO	1265	309	9.9	649	6	ABR81008	Human sec
1193	309	9.9	649	6	ABU91025	Human PRO	1266	309	9.9	649	6	ABR81313	Human sec

1267	309	9.9	649	6	ABM01009	Human sec	1340	309	9.9	649	6	ABM11128	Human sec
1268	309	9.9	649	6	ABR88611	Human sec	1341	309	9.9	649	6	ABM28272	Human sec
1269	309	9.9	649	6	ABM77432	Human sec	1342	309	9.9	649	6	ABO32271	Human sec
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1271	309	9.9	649	6	ABO31661	Human sec	1344	309	9.9	649	6	ABM06553	Human sec
1272	309	9.9	649	6	ABM08078	Human sec	1345	309	9.9	649	6	ABM04364	Human sec
1273	309	9.9	649	6	ABO40558	Human sec	1346	309	9.9	649	6	ABM22477	Human sec
1274	309	9.9	649	6	ABO35983	Human PRO	1347	309	9.9	649	6	ABM07773	Human sec
1275	309	9.9	649	6	ABO44122	Human PRO	1348	309	9.9	649	6	ABO40863	Human sec
1276	309	9.9	649	6	ADA78136	Human sec	1349	309	9.9	649	6	ABM35510	Human sec
1277	309	9.9	649	6	ABM24917	Human sec	1350	309	9.9	649	6	ABM33273	Human sec
1278	309	9.9	649	6	ABO03185	Human sec	1351	309	9.9	649	6	ABO52799	Human PRO
1279	309	9.9	649	6	ABR90441	Human sec	1352	309	9.9	649	6	ABO50359	Human sec
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1281	309	9.9	649	6	ABR95101	Human sec	1354	309	9.9	649	6	ABO04405	Human sec
1282	309	9.9	649	6	ABR95406	Human sec	1355	309	9.9	649	6	ABO06035	Human sec
1283	309	9.9	649	6	ABD17189	Human tra	1356	309	9.9	649	6	ABM18575	Human sec
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1285	309	9.9	649	6	ABR97908	Human sec	1358	309	9.9	649	6	ABR80703	Human sec
1286	309	9.9	649	6	ABR87696	Human sec	1359	309	9.9	649	6	ABM01314	Human sec
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1289	309	9.9	649	6	ABM06248	Human sec	1362	309	9.9	649	6	ABM20952	Human sec
1290	309	9.9	649	6	ABM03754	Human sec	1363	309	9.9	649	6	ABO42083	Human sec
1291	309	9.9	649	6	ABM35205	Human sec	1364	309	9.9	649	6	ABO42693	Human sec
1292	309	9.9	649	6	ABM26442	Human sec	1365	309	9.9	649	6	ABM10213	Human sec
1293	309	9.9	649	6	ABO48224	Human sec	1366	309	9.9	649	6	ABO38728	Human sec
1294	309	9.9	649	6	ABR92966	Human sec	1367	309	9.9	649	6	ABM32968	Human sec
1295	309	9.9	649	6	ABO24727	Human sec	1368	309	9.9	649	6	ABM22782	Human sec
1296	309	9.9	649	6	ABM11738	Human sec	1369	309	9.9	649	6	ABM74993	Human sec
1297	309	9.9	649	6	ABM02839	Human sec	1370	309	9.9	649	6	ADA79928	Human sec
1298	309	9.9	649	6	ABM16135	Human sec	1371	309	9.9	649	6	ABR96383	Human sec
1299	309	9.9	649	6	ABO27696	Human sec	1372	309	9.9	649	6	ABM02534	Human sec
1300	309	9.9	649	6	ABM29187	Human sec	1373	309	9.9	649	6	ABR86476	Human sec
1301	309	9.9	649	6	ABM07163	Human sec	1374	309	9.9	649	6	ABR86781	Human sec
1302	309	9.9	649	6	ABM21257	Human sec	1375	309	9.9	649	6	ABM16745	Human sec
1303	309	9.9	649	6	ABM09603	Human sec	1376	309	9.9	649	6	ABM29797	Human sec
1304	309	9.9	649	6	ABO41473	Human sec	1377	309	9.9	649	6	ABO29221	Human sec
1305	309	9.9	649	6	ABO36288	Human PRO	1378	309	9.9	649	6	ABM24002	Human sec
1306	309	9.9	649	6	ABO43817	Human PRO	1379	309	9.9	649	6	ABM23392	Human sec
1307	309	9.9	649	6	ABM76517	Human sec	1380	309	9.9	649	6	ABM22172	Human sec
1308	309	9.9	649	6	ABM76213	Human sec	1381	309	9.9	649	6	ABO37813	Human sec
1309	309	9.9	649	6	ABM25832	Human sec	1382	309	9.9	649	6	ABM28577	Human sec
1310	309	9.9	649	6	ABM26137	Human sec	1383	309	9.9	649	6	ABM28882	Human sec
1311	309	9.9	649	6	ABO03490	Human sec	1384	309	9.9	649	6	ABM65626	Human sec
1312	309	9.9	649	6	ABO02575	Human sec	1385	309	9.9	649	6	ABM75908	Human sec
1313	309	9.9	649	6	ABO44304	Human sec	1386	309	9.9	649	6	ABM34188	Human sec
1314	309	9.9	649	6	ABR90746	Human sec	1387	309	9.9	649	6	ABM34493	Human sec
1315	309	9.9	649	6	ABR73814	Human sec	1388	309	9.9	649	6	ABO20424	Human sec
1316	309	9.9	649	6	ABO17066	Human sec	1389	309	9.9	649	6	ABO21339	Human sec
1317	309	9.9	649	6	ABR94491	Human sec	1390	309	9.9	649	6	ABO22254	Human sec
1318	309	9.9	649	6	ABR75998	Human sec	1391	309	9.9	649	6	ADA20166	Novel hum
1319	309	9.9	649	6	ABR71374	Human sec	1392	309	9.9	649	6	ABR96688	Human sec
1320	309	9.9	649	6	ABR93271	Human sec	1393	309	9.9	649	6	ABR85866	Human sec
1321	309	9.9	649	6	ABR93576	Human sec	1394	309	9.9	649	6	ABR99848	Human sec
1322	309	9.9	649	6	ABR88001	Human sec	1395	309	9.9	649	6	ABM00399	Human sec
1323	309	9.9	649	6	ABO28001	Human sec	1396	309	9.9	649	6	ABM00704	Human sec
1324	309	9.9	649	6	ABO30136	Human sec	1397	309	9.9	649	6	ABM00704	Human sec
1325	309	9.9	649	6	ABO33345	Human PRO	1398	309	9.9	649	6	ABM23697	Human sec
1326	309	9.9	649	6	ABM05033	Human sec	1399	309	9.9	649	6	ABM29492	Human sec
1327	309	9.9	649	6	ABM08993	Human sec	1400	309	9.9	649	6	ABO38423	Human sec
1328	309	9.9	649	6	ABO36593	Human sec	1401	309	9.9	649	6	ABO45723	Human PRO
1329	309	9.9	649	6	ABO35678	Human PRO	1402	309	9.9	649	6	ABM20647	Human sec
1330	309	9.9	649	6	ABO39643	Human sec	1403	309	9.9	649	6	ADA81655	Human sec
1331	309	9.9	649	6	ABM10518	Human sec	1404	309	9.9	649	6	ABO16761	Human sec
1332	309	9.9	649	6	ABM12043	Human sec	1405	309	9.9	649	6	ABO18387	Human sec
1333	309	9.9	649	6	ABO52189	Human PRO	1406	309	9.9	649	6	ABO22814	Human PRO
1334	309	9.9	649	6	ABO52494	Human PRO	1407	309	9.9	649	6	ABO23119	Human PRO
1335	309	9.9	649	6	ADA19994	Novel hum	1408	309	9.9	649	6	ABR92661	Human sec
1336	309	9.9	649	6	ABO23812	Human sec	1409	309	9.9	649	6	ABR81618	Human sec
1337	309	9.9	649	6	ABD17377	Human tra	1410	309	9.9	649	6	ABM78042	Human sec
1338	309	9.9	649	6	ABR97298	Human sec	1411	309	9.9	649	6	ABR89831	Human sec
1339	309	9.9	649	6	ABR87086	Human sec	1412	309	9.9	649	6	ABM26747	Human sec





XX	Sequence 598 AA;	
SQ		
Query Match	100.0%; Score 3135; DB 2; Length 598;	
Best Local Similarity	100.0%; Pred. No. 3.3e-190;	
Matches 598; Conservative	0; Mismatches 0; Indels 0; Gaps 0;	
Qy	1 MCSRVPLLLPILLLLALPGVQGCPSGCQCQSQPQVFTCTARQGTTPRDVDPDTVGLYVF 60	
Db	1 MCSRVPLLLPILLLLALPGVQGCPSGCQCQSQPQVFTCTARQGTTPRDVDPDTVGLYVF 60	
Qy	61 ENGITMLDASSFAGLPGQLDLDSQNIASRLRLPRLLLDLSHNSLLALEPGILDANVE 120	
Db	61 ENGITMLDASSFAGLPGQLDLDSQNIASRLRLPRLLLDLSHNSLLALEPGILDANVE 120	
Qy	121 ALRLAGLQLOLDGLFSRLRNLDVSDNQLERVPVIRGLRGLTRRLRAGNTRIAQL 180	
Db	121 ALRLAGLQLOLDGLFSRLRNLDVSDNQLERVPVIRGLRGLTRRLRAGNTRIAQL 180	
Qy	181 RPEDLAGLAALQELDVSNLSIQALPGDLSGLFPRLRLAAARNPNCVPLSWFGPWVRE 240	
Db	181 RPEDLAGLAALQELDVSNLSIQALPGDLSGLFPRLRLAAARNPNCVPLSWFGPWVRE 240	
Qy	241 SHVTLASPEETRCHFPKKNAGRLLELDYADFGCPATTTTATVTRPVVREPTALSSSL 300	
Db	241 SHVTLASPEETRCHFPKKNAGRLLELDYADFGCPATTTTATVTRPVVREPTALSSSL 300	
Qy	301 APTWLSPTAPATEAPSPSTAPPTVGPVPQDCCPPSTCLNGTCHLGRHHLACLCPG 360	
Db	301 APTWLSPTAPATEAPSPSTAPPTVGPVPQDCCPPSTCLNGTCHLGRHHLACLCPG 360	
Qy	361 FTGLYCESQMGQTRPSTPTVTPRPSRLTIGIPVSPTSRLVGLQRYLQSSVQLRSRLR 420	
Db	361 FTGLYCESQMGQTRPSTPTVTPRPSRLTIGIPVSPTSRLVGLQRYLQSSVQLRSRLR 420	
Qy	421 LTYRNLSGPDRLVTLRLPASLAETVTLQPNATYSVCVMPLGPRVPEGEACGEAHT 480	
Db	421 LTYRNLSGPDRLVTLRLPASLAETVTLQPNATYSVCVMPLGPRVPEGEACGEAHT 480	
Qy	481 PPAVHSHNAPVTOAREGNLPLLIAPALAAVLLAALAAVGAAYCVRRRGRAMAAADQKQV 540	
Db	481 PPAVHSHNAPVTOAREGNLPLLIAPALAAVLLAALAAVGAAYCVRRRGRAMAAADQKQV 540	
Qy	541 GPGAGPLEGVKVPLEPGPKATEGGEBALSGSECEVPLMGFPQGLQSPHAKPYI 598	
Db	541 GPGAGPLEGVKVPLEPGPKATEGGEBALSGSECEVPLMGFPQGLQSPHAKPYI 598	
RESULT 2		
AAB01322		
ID	AAB01322 standard; protein; 598 AA.	
XX		
AC	AAB01322;	
XX		
DT	25-SEP-2000 (first entry)	
XX		
DE	Human PRO357 polypeptide.	
XX		
KW	PRO; membrane bound protein; secreted protein; PRO357; PRO327; PRO243;	
KW	PRO175; PRO241; PRO323; PRO299; PRO233; PRO344; PRO347; PRO355; PRO353;	
KW	PRO361; PRO365; transmembrane polypeptide; antibody; screening;	
KW	detection; inhibition; probe; primer; human.	
XX		
OS	Homo sapiens.	
XX		
FH	Key Location/Qualifiers	
FT	Peptide 1..23	
FT	/label= Signal peptide	
FT	Binding-site 14..25	
FT	/label= Prokaryotic membrane lipoprotein lipid attachment	
FT	site	
FT	Modified-site 23..29	
FT	/note= "N-myristoylation site"	

FT	Modified-site	27..33	/note= "N-myristoylation site"
FT	Modified-site	112..118	/note= "N-myristoylation site"
FT	Domain	122..144	/label= Leucine zipper pattern
FT	Domain	194..216	/label= Leucine zipper pattern
FT	Modified-site	198..202	/note= "N-glycosylation site"
FT	Modified-site	262..270	/note= "Tyrosine kinase phosphorylation site"
FT	Modified-site	273..279	/note= "N-myristoylation site"
FT	Domain	355..367	/label= EGF-like domain cysteine pattern signature
FT	Modified-site	425..429	/note= "N-glycosylation site"
FT	Modified-site	453..457	/note= "N-glycosylation site"
FT	Domain	501..522	/label= Transmembrane domain
FT	Modified-site	519..525	/note= "N-myristoylation site"
FT	Modified-site	565..571	/note= "N-myristoylation site"
XX			
PN	WO2000032776-A2.		
XX			
PD	08-JUN-2000.		
XX			
PF	01-DEC-1999;	99WO-US028301.	
XX			
PR	01-DEC-1998;	98WO-US025108.	
PR	16-DEC-1998;	98US-0112850P.	
PR	22-DEC-1998;	98US-0113296P.	
XX			
PA	(GETH ) GENENTECH INC.		
XX			
PI	Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;		
PI	Gerritsen ME, Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL;		
PI	Hillan KJ, Kljavin IJ, Napier MA, Roy MA, Tumas D, Wood WI;		
XX			
DR	WPI; 2000-412324/35.		
DR	N-PSDB; AAA49564.		
XX			
PT	New human nucleic acids encoding secreted and transmembrane polypeptides,		
PT	designated as PRO polypeptides, useful as pharmaceutical and diagnostic		
XX			
PS	agents.		
XX			
PS	Claim 12; Fig 26; 187pp; English.		
XX			
CC	New human nucleic acids encoding secreted and transmembrane polypeptides		
CC	which are designated as PRO polypeptides are described The membrane-bound		
CC	proteins have various industrial applications, including as		
CC	pharmaceutical and diagnostic agents. The membrane-bound proteins can		
CC	also be employed for screening of potential peptide or small molecule		
CC	inhibitors of the relevant receptor/ligand interaction. Anti-PRO		
CC	antibodies are useful for the affinity purification of PRO from		
CC	recombinant cell culture or natural sources		
XX			
SQ	Sequence 598 AA;		
Query Match	100.0%; Score 3135; DB 3; Length 598;		
Best Local Similarity	100.0%; Pred. No. 3.3e-190;		
Matches 598; Conservative	0; Mismatches 0; Indels 0; Gaps 0;		
Qy	1 MCSRVPLLLPILLLLALPGVQGCPSGCQCQSQPQVFTCTARQGTTPRDVDPDTVGLYVF 60		
Db	1 MCSRVPLLLPILLLLALPGVQGCPSGCQCQSQPQVFTCTARQGTTPRDVDPDTVGLYVF 60		
Qy	61 ENGITMLDASSFAGLPGQLDLDSQNIASRLRLPRLLLDLSHNSLLALEPGILDANVE 120		

Db	61	ENGITMLDASSFAGLPGLQLLDLSQNIASRLRPRLLLDLSNSLLALEPGLDITANVE	120
Qy	121	ALRLAGLGLQQLDEGLFSRLRLNHLHDVSDNQLRVPVIRGLGRLRLAGNTRIAQL	180
Db	121	ALRLAGLGLQQLDEGLFSRLRLNHLHDVSDNQLRVPVIRGLGRLRLAGNTRIAQL	180
Qy	181	RPEDLAAGLQELDVSNLSQALPGDLGLFPRLLRLAAARNPFCVPLSWFGPWVRE	240
Db	181	RPEDLAAGLQELDVSNLSQALPGDLGLFPRLLRLAAARNPFCVPLSWFGPWVRE	240
Qy	241	SHVTLASPEETRCHFPFKNAGRLLLLELDVADFGCPATTTTATVTPTRPVVREPTALSSSL	300
Db	241	SHVTLASPEETRCHFPFKNAGRLLLLELDVADFGCPATTTTATVTPTRPVVREPTALSSSL	300
Qy	301	APTWSPTAPATEAPSPSTAPTVGPVPQPCPPSTCLNGTCHLGRHHLACLCPEG	360
Db	301	APTWSPTAPATEAPSPSTAPTVGPVPQPCPPSTCLNGTCHLGRHHLACLCPEG	360
Qy	361	FTGLYCESOMGQTRSPPTVTPRPSRLTLGIEPVSPTSLRVGLQRYLQGSVQLRSLR	420
Db	361	FTGLYCESOMGQTRSPPTVTPRPSRLTLGIEPVSPTSLRVGLQRYLQGSVQLRSLR	420
Qy	421	LYTRNLSGDPKRLVTLRLPASLAEYTVTLRPNATYSVCVMPPLGCRVPEGEACGEAHT	480
Db	421	LYTRNLSGDPKRLVTLRLPASLAEYTVTLRPNATYSVCVMPPLGCRVPEGEACGEAHT	480
Qy	481	PPAVSHNHPVTOAREGNPLLIAPALAAVLAALAAVGAAYCVRGRGRAMAAQDKGV	540
Db	481	PPAVSHNHPVTOAREGNPLLIAPALAAVLAALAAVGAAYCVRGRGRAMAAQDKGV	540
Qy	541	GPCAGPLEGVKVPLEPGPKATEGGGEALPGSSECEVPLMGPPGLQSPHLHAKYI	598
Db	541	GPCAGPLEGVKVPLEPGPKATEGGGEALPGSSECEVPLMGPPGLQSPHLHAKYI	598

RESULT 3  
AA93691  
ID AA93691 standard; protein; 598 AA.  
XX  
AC AA93691;  
XX  
DT 03-OCT-2000 (first entry)  
DE  
DE Amino acid sequence of novel polypeptide PRO357.  
XX  
KW PRO201; PRO292; PRO327; PRO1265; PRO344; PRO347; PRO357; PRO715;  
KW PRO1017; PRO1112; PRO509; PRO853; PRO882; tumour cell; tumourigenesis;  
KW cancer; neoplastic cell growth; cell proliferation.  
XX  
OS Homo sapiens.  
XX  
FH  
FH Location/Qualifiers  
FT Peptide  
FT 1..23 /note= "signal sequence"  
FT Region  
FT 14..25 /note= "prokaryotic membrane lipoprotein attachment site"  
FT Modified-site  
FT 23..29 /note= "N-myristoylation site"  
FT Modified-site  
FT 27..33 /note= "N-myristoylation site"  
FT Modified-site  
FT 112..118 /note= "N-myristoylation site"  
FT Modified-site  
FT 122..144 /note= "N-myristoylation site"  
FT Region  
FT 194..216 /note= "leucine zipper"  
FT Modified-site  
FT 198..202 /note= "N-glycosylation site"  
FT Modified-site  
FT 262..270 /note= "tyrosine kinase phosphorylation site"  
FT Modified-site  
FT 273..279 /note= "N-myristoylation site"  
FT Modified-site  
FT 425..429

FT	Modified-site	/note= "N-glycosylation site"	453..457
FT	Domain	/note= "N-glycosylation site"	501..520
FT	Modified-site	/note= "transmembrane domain"	519..525
FT	Modified-site	/note= "N-myristoylation site"	555..571
FT	Modified-site	/note= "N-myristoylation site"	555..571
XX	WO200037640-A2.		
PN	29-JUN-2000.		
XX	16-DEC-1999;	99WO-US030095.	
XX	22-DEC-1998;	98US-0113296P.	
PR	08-MAR-1999;	99WO-US005028.	
PR	02-JUN-1999;	99WO-US012252.	
PR	01-SEP-1999;	99WO-US020111.	
PR	15-SEP-1999;	99WO-US021090.	
PR	30-NOV-1999;	99WO-US028313.	
PR	30-NOV-1999;	99WO-US028409.	
PR	01-DEC-1999;	99WO-US028301.	
PR	02-DEC-1999;	99WO-US028565.	
XX	(GETH ) GENENTECH INC.		
PA	Botstein D, Goddard A, Gurney AL, Hillan K, Lawrence DA, Roy MA, Wood WI;		
PI	WPI; 2000-452188/39.		
DR	N-PSDB; AAA46922.		
XX	New anti-polypeptide antibody useful in the treatment and diagnosis of neoplastic cell growth and proliferation.		
PT	Claim 61; Fig 16; 220pp; English.		
XX	The present sequence represents a novel human polypeptide. The specification describes novel polypeptides designated PRO201, PRO292, PRO327, PRO1265, PRO344, PRO347, PRO357, PRO715, PRO1017, PRO1112, PRO509, PRO853 and PRO882. These genes are amplified in the genome of tumour cells. The polypeptides are believed to contribute to tumourigenesis. The polypeptides are useful target for the identification of certain cancers, and may act as predictors of the prognosis of tumour treatment. Antibodies against these polypeptides are useful in the treatment and diagnosis of neoplastic cell growth and proliferation in mammals		
CC	Sequence 598 AA;		
XX	Query Match	100.0%; Score 3135; DB 3; Length 598;	
XX	Best Local Similarity	100.0%; Pred. No. 3.3e-190;	
XX	Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
Qy	1	MCSRPVLLPLLLALLALGPGVQCPCSCQSPQTVFCTARQGTTPRDPVPPDTVGLYVF	60
Db	1	MCSRPVLLPLLLALLALGPGVQCPCSCQSPQTVFCTARQGTTPRDPVPPDTVGLYVF	60
Qy	61	ENGITMLDASSFAGLPGLQLLDLSQNIASRLRPRLLLDLSNSLLALEPGLDITANVE	120
Db	61	ENGITMLDASSFAGLPGLQLLDLSQNIASRLRPRLLLDLSNSLLALEPGLDITANVE	120
Qy	121	ALRLAGLGLQQLDEGLFSRLRLNHLHDVSDNQLRVPVIRGLGRLRLAGNTRIAQL	180
Db	121	ALRLAGLGLQQLDEGLFSRLRLNHLHDVSDNQLRVPVIRGLGRLRLAGNTRIAQL	180
Qy	181	RPEDLAAGLQELDVSNLSQALPGDLGLFPRLLRLAAARNPFCVPLSWFGPWVRE	240
Db	181	RPEDLAAGLQELDVSNLSQALPGDLGLFPRLLRLAAARNPFCVPLSWFGPWVRE	240
Qy	241	SHVTLASPEETRCHFPFKNAGRLLLLELDVADFGCPATTTTATVTPTRPVVREPTALSSSL	300

Db 241 SHVTLASPEETRECHFPKNAAGLLELDYADFGCPATTTTATVTRPVREPTALSSSL 300  
Qy 301 APTWLSPTAPATEAPSPSTAPPTVGPVQPDCCPPSTCLNGGTCHLGRHHLACLCEP 360  
Db 301 APTWLSPTAPATEAPSPSTAPPTVGPVQPDCCPPSTCLNGGTCHLGRHHLACLCEP 360  
Qy 361 FTGLYCESOMGGTSPSTVTPRPRSLITLIGIEPVSPSTSLRVGLORYLQSSVQLRSLR 420  
Db 361 FTGLYCESOMGGTSPSTVTPRPRSLITLIGIEPVSPSTSLRVGLORYLQSSVQLRSLR 420  
Qy 421 LTYRNLSGPDKRLVTLRLPASLAETVTLQRPNATYSVCVMPLGPRVPEGEACEAHT 480  
Db 421 LTYRNLSGPDKRLVTLRLPASLAETVTLQRPNATYSVCVMPLGPRVPEGEACEAHT 480  
Qy 481 PPAVHSHAPVTOAREGNLPLLIAPALAAVLLAALAAVGAAYCVRRGRAMAAAAQDKGV 540  
Db 481 PPAVHSHAPVTOAREGNLPLLIAPALAAVLLAALAAVGAAYCVRRGRAMAAAAQDKGV 540  
Qy 541 GPGAGPLEGVKVPLEGPKEGCGGALPGSGSECEVPLMGFPGLQSPHAKPYI 598  
Db 541 GPGAGPLEGVKVPLEGPKEGCGGALPGSGSECEVPLMGFPGLQSPHAKPYI 598

## RESULT 4

AAU83643  
ID AAU83643 standard; protein; 598 AA.

AC AAU83643;

DT 08-MAY-2002 (first entry)

DE Human PRO protein, Seq ID No 104.

KW Human; secreted protein; PRO; tumour; lung cancer; colon cancer;  
KW breast cancer; prostate tumour; rectal tumour; liver tumour;  
KW pericyte cell proliferation; chondrocyte cell proliferation;  
KW tumour necrosis factor-alpha.

XX Homo sapiens.

XX WO200208288-A2.

PD 31-JAN-2002.

XX 29-JUN-2001; 2001WO-US021066.

XX 20-JUL-2000; 2000US-0219556P.

PR 25-JUL-2000; 2000US-0220585P.

PR 25-JUL-2000; 2000US-0220605P.

PR 25-JUL-2000; 2000US-0220607P.

PR 25-JUL-2000; 2000US-0220624P.

PR 25-JUL-2000; 2000US-0220638P.

PR 25-JUL-2000; 2000US-0220664P.

PR 25-JUL-2000; 2000US-0220666P.

PR 26-JUL-2000; 2000US-0220893P.

PR 28-JUL-2000; 2000WO-US020710.

PR 01-AUG-2000; 2000US-0222425P.

PR 22-AUG-2000; 2000US-0227133P.

PR 23-AUG-2000; 2000WO-US023522.

PR 24-AUG-2000; 2000WO-US023328.

PR 10-NOV-2000; 2000WO-US030873.

PR 28-NOV-2000; 2000US-0253646P.

PR 01-DEC-2000; 2000WO-US032678.

PR 20-DEC-2000; 2000US-00747259.

PR 20-DEC-2000; 2000WO-US034956.

PR 28-FEB-2001; 2001WO-US006520.

PR 01-MAR-2001; 2001WO-US006666.

PR 22-MAR-2001; 2001US-00816744.

PR 10-MAY-2001; 2001US-00854208.

PR 10-MAY-2001; 2001US-00854280.

XX 25-MAY-2001; 2001WO-US017092.

(GETH ) GENENTECH INC.

Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ;

Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;

WPI; 2002-172001/22.

DR N-PSDB; ABK33587.

XX One hundred and twenty two nucleic acids encoding PRO polypeptides,  
PT useful for treating a PRO related disorder and for diagnosing tumors such  
PT as lung cancer, colon cancer, breast tumor, prostate tumor, rectal tumor  
PT or liver tumor.

PS Claim 11; Fig 104; 359pp; English.

XX The invention relates to one hundred and twenty two nucleic acids  
CC encoding PRO polypeptides. The sequences of the 122 PRO polynucleotides  
CC encode human secreted proteins. The PRO nucleic acids, polypeptides,  
CC agonists and antagonists are useful for treating a PRO related disorder.  
CC The PRO polypeptides are useful for diagnosing tumours, especially lung  
CC cancer, colon cancer, breast tumor, prostate tumor, rectal tumor or  
CC liver tumor. The PRO polypeptides are useful for stimulating the  
CC the proliferation or differentiation of chondrocyte cells, for  
CC stimulating the release of tumour necrosis factor-alpha from human blood,  
CC for stimulating or inhibiting the proliferation of normal human dermal  
CC fibroblast cells. The PRO polypeptide may also be used as molecular  
CC weight markers and for tissue typing. The PRO nucleic acids have  
CC applications in molecular biology, including use as hybridisation probes,  
CC and in chromosome and gene mapping. AAU83592-AAU83713 represent human PRO  
CC protein sequences of the invention

XX SQ Sequence 598 AA;

Query Match 100.0%; Score 3135; DB 5; Length 598;

Best Local Similarity 100.0%; Pred. No. 3.3e-190;

Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MCSRVPLLLPLLLLLALGPGVQGCPCSCQSQPQTVCTARQGTTPRDPVDPDTVGLYVF 60

Db 1 MCSRVPLLLPLLLLLALGPGVQGCPCSCQSQPQTVCTARQGTTPRDPVDPDTVGLYVF 60

Qy 61 ENGITMLDASSFAGLPGILQLLDLSONOIASLRLLRLDLDSHNSLLALEGILDANVE 120

Db 61 ENGITMLDASSFAGLPGILQLLDLSONOIASLRLLRLDLDSHNSLLALEGILDANVE 120

Qy 121 ALRLAGLQQLDGLFSLRLNLHDLVDVSNQLERVPVIRGLRGLTLRLAGNTRIAQL 180

Db 121 ALRLAGLQQLDGLFSLRLNLHDLVDVSNQLERVPVIRGLRGLTLRLAGNTRIAQL 180

Qy 181 RPEDLAGLALQELDVSNLSLQALPGDLISGLFPLRLLLAAARNPNCVPLSWFGPWYRE 240

Db 181 RPEDLAGLALQELDVSNLSLQALPGDLISGLFPLRLLLAAARNPNCVPLSWFGPWYRE 240

Qy 241 SHVTLASPEETRECHFPKNAAGLLELDYADFGCPATTTTATVTRPVREPTALSSSL 300

Db 241 SHVTLASPEETRECHFPKNAAGLLELDYADFGCPATTTTATVTRPVREPTALSSSL 300

Qy 301 APTWLSPTAPATEAPSPSTAPPTVGPVQPDCCPPSTCLNGGTCHLGRHHLACLCEP 360

Db 301 APTWLSPTAPATEAPSPSTAPPTVGPVQPDCCPPSTCLNGGTCHLGRHHLACLCEP 360

Qy 361 FTGLYCESOMGGTSPSTVTPRPRSLITLIGIEPVSPSTSLRVGLORYLQSSVQLRSLR 420

Db 361 FTGLYCESOMGGTSPSTVTPRPRSLITLIGIEPVSPSTSLRVGLORYLQSSVQLRSLR 420

Qy 421 LTYRNLSGPDKRLVTLRLPASLAETVTLQRPNATYSVCVMPLGPRVPEGEACEAHT 480

Db 421 LTYRNLSGPDKRLVTLRLPASLAETVTLQRPNATYSVCVMPLGPRVPEGEACEAHT 480

Qy 481 PPAVHSHAPVTOAREGNLPLLIAPALAAVLLAALAAVGAAYCVRRGRAMAAAAQDKGV 540

Db 481 PPAVHSHAPVTOAREGNLPLLIAPALAAVLLAALAAVGAAYCVRRGRAMAAAAQDKGV 540

QY 541 GPGAGPLEGKVKVPLEPGPKATEGGGEALPGSGCEVPLMGPPGGLQSPHLHAKPYI 598  
 |||||  
 Db 541 GPGAGPLEGKVKVPLEPGPKATEGGGEALPGSGCEVPLMGPPGGLQSPHLHAKPYI 598  
 |||||

RESULT 5  
 ABUS5931  
 ID ABUS5931 standard; protein; 598 AA.  
 AC ABUS5931;  
 XX  
 DT 26-MAR-2003 (first entry)  
 XX  
 DE Human secreted/transmembrane protein PRO357.  
 XX  
 KW Human; PRO; secreted protein; transmembrane protein; anti-HIV;  
 KW cytostatic; antiarteriosclerotic; antiinflammatory; antidiabetic;  
 KW cardiac; AIDS; acquired immunodeficiency syndrome; cancer;  
 KW atherosclerosis; inflammatory disease; diabetic complication;  
 KW cardiac injury; organ failure.  
 XX  
 OS Homo sapiens.  
 XX  
 PN US2002142959-A1.  
 XX  
 PD 03-OCT-2002.  
 XX  
 PF 31-AUG-2001; 2001US-00944654.  
 XX  
 PR 16-SEP-1998; 98WO-US019330.  
 PR 01-DEC-1998; 98WO-US025108.  
 PR 22-JUN-1999; 99WO-US012252.  
 PR 15-SEP-1999; 99WO-US021090.  
 PR 30-NOV-1999; 99WO-US028313.  
 PR 30-NOV-1999; 99WO-US028409.  
 PR 01-DEC-1999; 99WO-US028301.  
 PR 16-DEC-1999; 99WO-US030095.  
 PR 11-FEB-2000; 2000WO-US003565.  
 PR 22-FEB-2000; 2000WO-US004414.  
 PR 02-MAR-2000; 2000WO-US005841.  
 PR 30-MAR-2000; 2000WO-US008439.  
 PR 22-MAY-2000; 2000WO-US014042.  
 PR 28-JUL-2000; 2000WO-US020710.  
 PR 01-DEC-2000; 2000WO-US032678.  
 PR 28-FEB-2001; 2001WO-US006520.  
 PR 25-MAY-2001; 2001US-00866028.  
 XX  
 PA (GETH ) GENENTECH INC.  
 XX  
 PI Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;  
 PI Gerritsen ME, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL;  
 PI Hillan KJ, Kljavin IJ, Napier MA, Roy MA, Tumas D, Wood WI;  
 XX  
 DR WPI; 2003-174141/17.  
 DR N-PSDB; ABX75493.  
 XX  
 PT New isolated PRO polypeptide and encoding nucleic acid, useful for the  
 PT diagnosis and treatment of disorders associated with the PRO polypeptide,  
 PT such as AIDS, cancer, atherosclerosis, inflammatory disease and diabetes.  
 XX  
 PS Claim 12; Fig 26; 178pp; English.  
 XX  
 CC The invention relates to an isolated PRO polypeptide (a secreted or  
 CC transmembrane protein) comprising: (a) at least 80% sequence identity or  
 CC positives when compared to any of 15 sequences, fully defined in the  
 CC specification, lacking or with its associated signal peptide; or (b) at  
 CC least 80% sequence identity to a sequence encoded by the full-length  
 CC coding sequence of a DNA deposited in the American Type Culture  
 CC Collection (ATCC). Also included are: (1) an isolated nucleic acid  
 CC comprising: (a) at least 80% sequence identity to a nucleotide sequence  
 CC that encodes a PRO protein; (b) at least 80% sequence identity to a  
 CC nucleotide sequence or full-length coding sequence with any of 15 fully

CC defined sequences of 957-3441 base pairs, given in the specification; or  
 CC (c) at least 80% sequence identity to a full-length coding sequence of a  
 CC DNA deposited under ATCC Accession No. 209526, 209508, 209524, 209528,  
 CC 209530, 209523, 209492, 209531, 209529, 209527, 209570, 209618,  
 CC 209621 or 209619; (2) a vector comprising the nucleic acid; (3) a host  
 CC cell comprising the vector which, when cultured under conditions suitable  
 CC for expression of the PRO polypeptide, produces the PRO protein; (4) a  
 CC chimeric molecule comprising PRO fused to a heterologous amino acid  
 CC sequence; and (5) an anti-PRO antibody. The methods and compositions of  
 CC the present invention are useful for the diagnosis and treatment of  
 CC disorders associated with the PRO polypeptide, such as AIDS (acquired  
 CC immunodeficiency syndrome), cancer, atherosclerosis, inflammatory  
 CC disease, diabetic complications, cardiac injury and organ failure. The  
 CC antibodies can also be used in the different screening, therapeutic and  
 CC biological assays. The present sequence represents a PRO protein  
 XX  
 XX Sequence 598 AA;  
 Query Match 100.0%; Score 3135; DB 6; Length 598;  
 Best Local Similarity 100.0%; Pred. No. 3.3e-190;  
 Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 MCSRVPLLLPLLLALLGPGVQGPCSGCQCSQPTVCTARQGTTPRODVPDVTGLYVF 60  
 |||||  
 Db 1 MCSRVPLLLPLLLALLGPGVQGPCSGCQCSQPTVCTARQGTTPRODVPDVTGLYVF 60  
 |||||  
 QY 61 ENGITMDASSFAGLQLLDLSQNIASRLPRLLLDLSHNSLLALEPGILDITANVE 120  
 |||||  
 Db 61 ENGITMDASSFAGLQLLDLSQNIASRLPRLLLDLSHNSLLALEPGILDITANVE 120  
 |||||  
 QY 121 ALRLAGLGLQDDEGLFSRLNLHLDLVDSDNQLERVPVIRGLGLTRLRAGNTRIAQL 180  
 |||||  
 Db 121 ALRLAGLGLQDDEGLFSRLNLHLDLVDSDNQLERVPVIRGLGLTRLRAGNTRIAQL 180  
 |||||  
 QY 181 RPEDLAGLAALQELDVSNLSLQALPGDLSGLFPRLLRLAAARNPNCVCLSWFGFWVRE 240  
 |||||  
 Db 181 RPEDLAGLAALQELDVSNLSLQALPGDLSGLFPRLLRLAAARNPNCVCLSWFGFWVRE 240  
 |||||  
 QY 241 SHVTLASPEETRCHPPKKNAGRLLELDYADFGCPATTTTATVTPTRPVVREPTALSSSL 300  
 |||||  
 Db 241 SHVTLASPEETRCHPPKKNAGRLLELDYADFGCPATTTTATVTPTRPVVREPTALSSSL 300  
 |||||  
 QY 301 APTWLSPTAPATEAPSPSTAPPTVGPVPOQDCPPSTCLNGTCHLGRHHLACLCPG 360  
 |||||  
 Db 301 APTWLSPTAPATEAPSPSTAPPTVGPVPOQDCPPSTCLNGTCHLGRHHLACLCPG 360  
 |||||  
 QY 361 FTGLYCESQMGOGTRPSPTPTPRPSRLTGLIEPVSPTSRLVGLQRYLQSSSVQLRSUR 420  
 |||||  
 Db 361 FTGLYCESQMGOGTRPSPTPTPRPSRLTGLIEPVSPTSRLVGLQRYLQSSSVQLRSUR 420  
 |||||  
 QY 421 LTYRNLSPDKRLVTLRLPASLAETVTQLRPNATYSVCVMPGLGPRVPEGEACGEAHT 480  
 |||||  
 Db 421 LTYRNLSPDKRLVTLRLPASLAETVTQLRPNATYSVCVMPGLGPRVPEGEACGEAHT 480  
 |||||  
 QY 481 PPAVSHNAPVTQAREGNLPLLIAPALAAVLAALAAVGAAYCVRGRGMAAAQDKGV 540  
 |||||  
 Db 481 PPAVSHNAPVTQAREGNLPLLIAPALAAVLAALAAVGAAYCVRGRGMAAAQDKGV 540  
 |||||  
 QY 541 GPGAGPLEGKVKVPLEPGPKATEGGGEALPGSGCEVPLMGPPGGLQSPHLHAKPYI 598  
 |||||  
 Db 541 GPGAGPLEGKVKVPLEPGPKATEGGGEALPGSGCEVPLMGPPGGLQSPHLHAKPYI 598  
 |||||

RESULT 6  
 ABUS0790  
 ID ABUS0790 standard; protein; 598 AA.  
 XX  
 AC ABUS0790;  
 XX  
 DT 23-JUN-2003 (first entry)  
 XX  
 DE Human PRO polypeptide #52.  
 XX

KW Human: PRO polypeptide; secreted and transmembrane protein;  
KW anti-PRO antibody; diagnostic assay; gene expression; tumour; cytostatic.  
OS Homo sapiens.  
XX US2003036635-A1.  
XX PD 20-FEB-2003.  
XX PF 28-AUG-2002; 2002US-00230163.  
XX PR 25-JUL-2000; 2000US-0220638P.  
XX PR 01-JUN-2001; 2001WO-US017800.  
XX PR 29-JUN-2001; 2001WO-US021066.  
XX PR 09-APR-2002; 2002US-00119480.  
XX PA (GETH ) GENENTECH INC.  
XX PI Baker KP, Deenoyers L, Gerritsen ME, Goddard A, Godowski PJ;  
XX Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;  
XX WPI; 2003-342045/32.  
XX DR N-PSDB; ACA66892.  
XX PT One hundred and twenty two nucleic acids encoding PRO polypeptides.  
XX PT useful for the manufacture of a medicament for diagnosing or treating  
XX tumor.  
XX PS Claim 11; Fig 104; 314pp; English.  
XX CC The present invention relates to the isolation of novel human PRO  
XX polypeptides, and the polynucleotide sequences encoding them. The PRO  
XX polypeptides are secreted and transmembrane proteins. The PRO  
XX polypeptides and polynucleotides are useful for preparing a medicament  
XX useful in the diagnosis and treatment of tumours. Anti-PRO antibodies are  
XX useful in diagnostic assays for PRO, by detecting its expression in  
XX specific cells, tissues or serum, and for affinity purification of PRO  
XX from recombinant cell culture or natural sources. ABU80739-ABU80860  
XX represent the human PRO polypeptides of the invention. Note: The sequence  
XX data for this patent was obtained in electronic format directly from the  
XX USPTO web site at seqdata.uspto.gov/psipsDIDENTry.html  
SQ Sequence 598 AA;  
Query Match 100.0%; Score 3135; DB 6; Length 598;  
Best Local Similarity 100.0%; Pred. No. 3.3e-130;  
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MCSRVPLLLPLLLLLALGPGVQGCPSGCCSQPQTVFCTARQGTVPREDVPPDTVGLVVF 60  
DB 1 MCSRVPLLLPLLLLLALGPGVQGCPSGCCSQPQTVFCTARQGTVPREDVPPDTVGLVVF 60  
QY 61 ENGITMLDASSFAGLPGLQLDLSONQIASLRPLRLMLLDLSHNSLLALEPGILDVANVE 120  
DB 61 ENGITMLDASSFAGLPGLQLDLSONQIASLRPLRLMLLDLSHNSLLALEPGILDVANVE 120  
QY 121 ALRLAGLGLQDLDEGLFSLRLNHLHDVSDNQLERVPVIRGLRGLTRLAGNTRIAQL 180  
DB 121 ALRLAGLGLQDLDEGLFSLRLNHLHDVSDNQLERVPVIRGLRGLTRLAGNTRIAQL 180  
QY 181 RPEDLAGLAALQELDVSNLSLQALPGDLSGLFPRRLILAAARNPNCVPLSWFGPWVRE 240  
DB 181 RPEDLAGLAALQELDVSNLSLQALPGDLSGLFPRRLILAAARNPNCVPLSWFGPWVRE 240  
QY 241 SHVTLASPEETRCHPPPNAGRLLELDYADFGCPATTTTATVPTTRPVWEPTALSSSL 300  
DB 241 SHVTLASPEETRCHPPPNAGRLLELDYADFGCPATTTTATVPTTRPVWEPTALSSSL 300  
QY 301 APTWLSPTAPATEAPSPSTAPPTVGPVQPODCPPSTCLNGGTCHLTRHHLACLCPGEG 360  
DB 301 APTWLSPTAPATEAPSPSTAPPTVGPVQPODCPPSTCLNGGTCHLTRHHLACLCPGEG 360  
QY 361 FTGLYCESQMGQTRPPTVTPRPRSLTLGIEPVSPSLRVGLQRYLQSSSVQLRSLR 420

DB 361 FTGLYCESQMGQTRPPTVTPRPRSLTLGIEPVSPSLRVGLQRYLQSSSVQLRSLR 420  
QY 421 LTYRNLSGPDKRLVTLRLPASLAETVTVQLRPNATYSVCVNMPLGPRVPEGEACGEAHT 480  
DB 421 LTYRNLSGPDKRLVTLRLPASLAETVTVQLRPNATYSVCVNMPLGPRVPEGEACGEAHT 480  
QY 481 PPAVHSNHAPVTOAREGNLPLLIAPALAAVLLAALAAVGAAYCYRRGRAMAAADKGOV 540  
DB 481 PPAVHSNHAPVTOAREGNLPLLIAPALAAVLLAALAAVGAAYCYRRGRAMAAADKGOV 540  
QY 541 GPGAGPLELEGVKVPLEPGPKATEGGGEALPSGSECEVPLMGFPQGLQSLPHAKPYI 598  
DB 541 GPGAGPLELEGVKVPLEPGPKATEGGGEALPSGSECEVPLMGFPQGLQSLPHAKPYI 598  
RESULT 7  
ABO33756  
ID ABO33756 standard; protein; 598 AA.  
XX AC ABO33756;  
XX DT 17-SEP-2003 (first entry)  
XX DE Novel human secreted and transmembrane protein PRO357.  
XX KW Human; secreted and transmembrane protein; PRO; cytostatic;  
KW antiarthritic; osteopathic; gene therapy; TNF-Agonist-Alpha;  
KW chondrocyte stimulator; pericyte stimulator; fibroblast modulator;  
KW pharmaceutical; diagnostic; biosensor; bio-reactor; tumour; lung tumour;  
KW colon tumour; breast tumour; prostate tumour; rectal tumour;  
KW liver tumour; bone disorder; cartilage disorder; sports injury;  
KW arthritis; wound.  
XX OS Homo sapiens.  
XX PN US2003045687-A1.  
XX PD 06-MAR-2003.  
XX PF 12-AUG-2002; 2002US-00218631.  
XX PR 01-JUN-2001; 2001WO-US017800.  
XX PR 29-JUN-2001; 2001WO-US021066.  
XX PR 09-APR-2002; 2002US-00119480.  
XX PA (GETH ) GENENTECH INC.  
XX PI Baker KP, Deenoyers L, Gerritsen ME, Goddard A, Godowski PJ;  
XX Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;  
XX WPI; 2003-512315/48.  
XX DR N-PSDB; ACD68644.  
XX PT New genes, and its encoded secreted and transmembrane polypeptides,  
XX useful for stimulating Tumor Necrosis Factor alpha, or chondrocyte or  
XX pericyte proliferation, especially for treating lung tumors, arthritis or  
XX wounds in a mammal.  
XX PS Claim 11; Fig 104; 314pp; English.  
XX CC The invention describes an isolated nucleic acid molecule comprising a  
XX sequence with at least 80% identity to: (a) a nucleotide encoding any of  
XX 122 PRO (secreted and transmembrane) polypeptides whose sequences are  
XX fully defined in the specification; or (b) any of 122 nucleotide  
XX sequences having e.g. 4834, 2504 or 1759 bp fully defined in the  
XX specification; or the full length coding sequence of any these 122  
XX nucleotide sequences. The PRO polypeptides or polynucleotides are useful  
XX as pharmaceuticals, diagnostics, biosensors or bio-reactors. These are  
XX particularly useful for detecting tumours (e.g. lung tumour, colon  
XX tumour, breast tumour, prostate tumour, rectal tumour, or liver tumour)  
XX in a mammal, for stimulating the release of TNF-alpha from human blood,  
XX for stimulating the proliferation or differentiation of chondrocyte



CC infertility, birth defects, premature aging, acquired immunodeficiency  
CC syndrome (AIDS) and diabetic complications in mammals, e.g. humans, dogs,  
CC cats, cattle, horses, sheep, pigs, goats or rabbits. The sequences are  
CC also useful in biotechnological and medical research and in various  
CC industrial applications. Sequences ABU60230-ABU60245 represent human PRO  
CC polypeptides of the invention  
XX  
SQ Sequence 598 AA;

Query Match 100.0%; Score 3135; DB 6; Length 598;  
Best Local Similarity 100.0%; Pred. No. 3.3e-130;  
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MCSRVPLLLPILLLALGFGVQCSCGSCQSQPQVFCCTARQGTTPRDPVDDTGLVYF 60  
Db 1 MCSRVPLLLPILLLALGFGVQCSCGSCQSQPQVFCCTARQGTTPRDPVDDTGLVYF 60  
QY 61 ENGITMLDASSFAGLPGQLDLDSNQIASRLPRLLLDLSHNSLLALEPGILDANVE 120  
Db 61 ENGITMLDASSFAGLPGQLDLDSNQIASRLPRLLLDLSHNSLLALEPGILDANVE 120  
QY 121 ALRLAGLGLQQLDEGLFSLRLNLHLDVSDNQLERVPVIRGLGLTRLRAGNTRIAQL 180  
Db 121 ALRLAGLGLQQLDEGLFSLRLNLHLDVSDNQLERVPVIRGLGLTRLRAGNTRIAQL 180  
QY 181 RPEDLAGLAALQELDVSNLSLQALPGDLSGLFPRLRLAAARNPNCVCPISWFGPWVRE 240  
Db 181 RPEDLAGLAALQELDVSNLSLQALPGDLSGLFPRLRLAAARNPNCVCPISWFGPWVRE 240  
QY 241 SHVTLASPEETRCHPPKKNAGRLLELDYADFGCPATTTTATVTRPVVREPTALSSSL 300  
Db 241 SHVTLASPEETRCHPPKKNAGRLLELDYADFGCPATTTTATVTRPVVREPTALSSSL 300  
QY 301 APTWLSPTAPATEAPSPSTAPPVTPVGPQDCPPSTCLNGGTCHLGRHHLACLCEPG 360  
Db 301 APTWLSPTAPATEAPSPSTAPPVTPVGPQDCPPSTCLNGGTCHLGRHHLACLCEPG 360  
QY 361 FTGLYCESQMGQGTSPSTPTVTPRPRSLTIGIEPVSTSRVGLQRYLOGSSVOLRLSLR 420  
Db 361 FTGLYCESQMGQGTSPSTPTVTPRPRSLTIGIEPVSTSRVGLQRYLOGSSVOLRLSLR 420  
QY 421 LTYRNLSPDKRLVTLRLPASLAETVTQLPNATYSVCVMPLGPRVPEGEAGEAHT 480  
Db 421 LTYRNLSPDKRLVTLRLPASLAETVTQLPNATYSVCVMPLGPRVPEGEAGEAHT 480  
QY 481 PPAVHSHNAPVTQAREGNLPLLIAPALAAVLLAALAAVGAAYCVRGRGMAAAQDKGV 540  
Db 481 PPAVHSHNAPVTQAREGNLPLLIAPALAAVLLAALAAVGAAYCVRGRGMAAAQDKGV 540  
QY 541 GPGAGPLEGVKVPLEPGPKATEGGALPGSGSECEVPLMGFGPGQLQSLHAKPYI 598  
Db 541 GPGAGPLEGVKVPLEPGPKATEGGALPGSGSECEVPLMGFGPGQLQSLHAKPYI 598

RESULT 9  
ABU64927

ID ABU64927 standard; protein; 598 AA.

AC ABU64927;

DT 15-MAY-2003 (first entry)

DE Human secreted/transmembrane protein PRO357.

XX Human; PRO; secreted protein; transmembrane protein;  
KW Cornelia de Lange syndrome; gene therapy; immune disorder;  
KW inflammatory disease; organ failure; atherosclerosis; cardiac injury;  
KW infertility; birth defect; premature aging; cardiac injury; AIDS; cancer;  
KW diabetic complication.

OS Homo sapiens.

XX US2002173463-A1.

XX 21-NOV-2002.  
PD 31-AUG-2001; 2001US-00944944.  
XX 03-DEC-1997; 97US-0067411P.  
PR 11-DEC-1997; 97US-0069278P.  
PR 11-DEC-1997; 97US-0069334P.  
PR 11-DEC-1997; 97US-0069335P.  
PR 12-DEC-1997; 97US-0069425P.  
PR 16-DEC-1997; 97US-0069694P.  
PR 16-DEC-1997; 97US-0069696P.  
PR 16-DEC-1997; 97US-0069702P.  
PR 17-DEC-1997; 97US-0069870P.  
PR 17-DEC-1997; 97US-0069873P.  
PR 18-DEC-1997; 97US-0068017P.  
PR 05-JAN-1998; 98US-0070440P.  
PR 09-FEB-1998; 98US-0074086P.  
PR 09-FEB-1998; 98US-0074092P.  
PR 25-FEB-1998; 98US-0075945P.  
PR 16-SEP-1998; 98WO-US019330.  
PR 01-DEC-1998; 98WO-US025108.  
PR 16-DEC-1998; 98US-0112850P.  
PR 22-DEC-1998; 98US-0113296P.  
PR 02-JUN-1999; 99WO-US012252.  
PR 28-JUL-1999; 99US-0146222P.  
PR 15-SEP-1999; 99WO-US021090.  
PR 30-NOV-1999; 99WO-US028313.  
PR 30-NOV-1999; 99WO-US028409.  
PR 01-DEC-1999; 99WO-US028301.  
PR 16-DEC-1999; 99WO-US030095.  
PR 11-FEB-2000; 2000WO-US003565.  
PR 22-FEB-2000; 2000WO-US004414.  
PR 02-MAR-2000; 2000WO-US005841.  
PR 30-MAR-2000; 2000WO-US008439.  
PR 22-MAY-2000; 2000WO-US014042.  
PR 28-JUL-2000; 2000WO-US020710.  
PR 01-DEC-2000; 2000WO-US032678.  
PR 28-FEB-2001; 2001WO-US006520.  
PR 25-MAY-2001; 2001US-00866028.

(GETH ) GENENTECH INC.

Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;  
Gerritsen ME, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL;  
Hillan KJ, Kljavin IJ, Napier MA, Roy MA, Tumas D, Wood WI;  
WPI; 2003-311003/30.  
N-PSDB; ABX96821.

New transmembrane polypeptides and polynucleotides useful for chromosome  
identification, tissue typing, gene therapy, in chromosome and gene  
mapping, or as molecular weight markers.

Claim 12; Fig 26; 172pp; English.

The invention relates to an isolated nucleic acid encoding a secreted/  
transmembrane polypeptide (designated as PRO proteins). 15 PRO  
polypeptides and their encoding polynucleotides are disclosed. Also  
included are a vector comprising the PRO nucleic acid, a host cell  
comprising the vector, a process for producing a PRO polypeptide (by  
culturing the host cell under conditions for the expression of the PRO  
polypeptide, and recovering the PRO polypeptide from the cell culture, an  
isolated polypeptide having at least 80% amino acid sequence identity to  
the PRO polypeptides, a chimeric molecule comprising PRO fused to a  
heterologous amino acid sequence and an antibody which specifically binds  
to PRO. The PRO nucleotide sequences are useful as hybridisation probes,  
in chromosome and gene mapping, in generating sense and antisense RNA or  
DNA, in generating transgenic or knock-out animals which can be used in  
the development and screening of therapeutically useful reagents, and in  
gene therapy. The polypeptides may be used as molecular weight markers  
for protein electrophoresis purposes. The PRO polypeptides and nucleic  
acids may also be used for chromosome identification, and tissue typing.





QY 1 MCSRVPLLLPLLLLLALPGVQGCPSGCQSQPQTVFCTARQGTTPRDRVPPDTVGLYVF 60  
Db 1 MCSRVPLLLPLLLLLALPGVQGCPSGCQSQPQTVFCTARQGTTPRDRVPPDTVGLYVF 60  
QY 61 ENGITMLDASSFAGLPGQLQLDLSONQIASLRLPRLLLLDLSHNSLLALEPGILDVANVE 120  
Db 61 ENGITMLDASSFAGLPGQLQLDLSONQIASLRLPRLLLLDLSHNSLLALEPGILDVANVE 120  
QY 121 ALRLAGLGLQDLDEGLFSRLNLHDLVDSDNQLERVPVIRGLRGLTRLRAGNTRIAQL 180  
Db 121 ALRLAGLGLQDLDEGLFSRLNLHDLVDSDNQLERVPVIRGLRGLTRLRAGNTRIAQL 180  
QY 181 RPEDLAGLAALQELDVSNLSLQALPGDLGLFPRLLRLAAARNPNCVPLSWFGPWVRE 240  
Db 181 RPEDLAGLAALQELDVSNLSLQALPGDLGLFPRLLRLAAARNPNCVPLSWFGPWVRE 240  
QY 241 SHVTLASPEETRCHFPKKNAGRLLELDYADFGCPATTTTATVPTTRPVVREPTALSSSL 300  
Db 241 SHVTLASPEETRCHFPKKNAGRLLELDYADFGCPATTTTATVPTTRPVVREPTALSSSL 300  
QY 301 APTWLSPTAPATEAPSPSTAPPTVGPVPOQDCPPSTCLNGGTCHLGRHHLACLCEP 360  
Db 301 APTWLSPTAPATEAPSPSTAPPTVGPVPOQDCPPSTCLNGGTCHLGRHHLACLCEP 360  
QY 361 FTGLYCSQMGQGRTPSTPTVTPRPRSLLTIGIBPVSPSTSLRVGLRYLQSSVQLRSLR 420  
Db 361 FTGLYCSQMGQGRTPSTPTVTPRPRSLLTIGIBPVSPSTSLRVGLRYLQSSVQLRSLR 420  
QY 421 LTYRNLSPDKRLVTLRPLASLAETVTLRPNATYSVCVMPLGPGRVPEGEACGAHT 480  
Db 421 LTYRNLSPDKRLVTLRPLASLAETVTLRPNATYSVCVMPLGPGRVPEGEACGAHT 480  
QY 481 PPAVHNSHAPVTOAREGNLPLLIAPALAAVLAALAAVGAAYCVRGRMAAAQAQDKGV 540  
Db 481 PPAVHNSHAPVTOAREGNLPLLIAPALAAVLAALAAVGAAYCVRGRMAAAQAQDKGV 540  
QY 541 GPGAGPLEGVKVPLEPGKATRGGEALPSGSECEVPLMGFPGLQPLHAKPYI 598  
Db 541 GPGAGPLEGVKVPLEPGKATRGGEALPSGSECEVPLMGFPGLQPLHAKPYI 598

RESULT 11

ABUS7247  
ID ABUS7247 standard; protein; 598 AA.  
XX AC ABUS7247;  
XX DT 04-APR-2003 (first entry)  
XX DE Human PRO357 protein.  
XX KW Human; antiinflammatory; antiarteriosclerotic; cardiant;  
KW anti-inferility; anti-HIV; cytostatic; antiidiabetic; transmembrane;  
KW antiinflammatory; anti-HIV; antiarteriosclerotic; cardiant; inferility;  
KW anti-inferility; cytostatic; antiidiabetic; gene therapy; birth defect;  
KW inflammatory disease; organ failure; atherosclerosis; cardiac injury;  
XX KW premature aging; AIDS; cancer; diabetic complication.  
OS Homo sapiens.  
XX PN US2002142958-A1.  
XX PD 03-OCT-2002.  
XX PF 30-AUG-2001; 2001US-00943762.  
XX PR 16-SEP-1998; 98WO-US019330.  
PR 01-DEC-1998; 98WO-US025108.  
PR 22-JUN-1999; 99WO-US012252.  
PR 15-SEP-1999; 99WO-US021090.  
PR 30-NOV-1999; 99WO-US028313.  
PR 30-NOV-1999; 99WO-US028409.

PR 01-DEC-1999; 99WO-US028301.  
PR 16-DEC-1999; 99WO-US030095.  
PR 11-FEB-2000; 2000WO-US003565.  
PR 22-FEB-2000; 2000WO-US004414.  
PR 02-MAR-2000; 2000WO-US005841.  
PR 30-MAR-2000; 2000WO-US008439.  
PR 22-MAY-2000; 2000WO-US014042.  
PR 28-JUL-2000; 2000WO-US020710.  
PR 01-DEC-2000; 2000WO-US032678.  
PR 28-FEB-2001; 2001WO-US006520.  
PR 25-MAY-2001; 2001US-00866028.  
XX (GETH ) GENENTECH INC.  
XX Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;  
PI Gerritsen ME, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL;  
PI Hillan KJ, Kljavin IJ, Napier MA, Roy MA, Tumas D, Wood WI;  
XX WPI; 2003-174140/17.  
DR N-PSDB; ABX77108.  
XX  
XX New secreted and transmembrane nucleic acids and polypeptides, designated  
PT as PRO, useful for treating inflammation, organ failure, atherosclerosis,  
PT cardiac injury, infertility, birth defects, premature aging, AIDS, or  
PT cancer.  
XX  
XX Claim 1; Fig 26; 173pp; English.  
XX  
XX This invention relates to a nucleotide sequence encoding an isolated  
CC secreted and/or transmembrane protein. The nucleotide sequences of the  
CC invention may have antiinflammatory, antiarteriosclerotic, cardiant, anti  
CC -infertility, anti-HIV, cytostatic and antiidiabetic activities and may be  
CC used in gene therapy. The nucleic acids and polypeptides are useful for  
CC treating inflammatory diseases, organ failure, atherosclerosis, cardiac  
CC injury, infertility, birth defects, premature aging, AIDS, cancer, or  
CC diabetic complications. The nucleic acids are useful as hybridisation  
CC probes, in chromosome and gene mapping, and in generating antisense RNA  
CC or DNA. The polypeptides are useful as pharmaceuticals, diagnostics,  
CC biosensors or bioreactors. Both are useful in tissue typing. The present  
CC sequence represents a protein encoded by the nucleic acids of the  
CC invention  
XX  
SQ Sequence 598 AA;

Query Match 100.0%; Score 3135; DB 6; Length 598;  
Best Local Similarity 100.0%; Pred. No. 3.3e-190;  
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MCSRVPLLLPLLLLLALPGVQGCPSGCQSQPQTVFCTARQGTTPRDRVPPDTVGLYVF 60  
Db 1 MCSRVPLLLPLLLLLALPGVQGCPSGCQSQPQTVFCTARQGTTPRDRVPPDTVGLYVF 60  
QY 61 ENGITMLDASSFAGLPGQLQLDLSONQIASLRLPRLLLLDLSHNSLLALEPGILDVANVE 120  
Db 61 ENGITMLDASSFAGLPGQLQLDLSONQIASLRLPRLLLLDLSHNSLLALEPGILDVANVE 120  
QY 121 ALRLAGLGLQDLDEGLFSRLNLHDLVDSDNQLERVPVIRGLRGLTRLRAGNTRIAQL 180  
Db 121 ALRLAGLGLQDLDEGLFSRLNLHDLVDSDNQLERVPVIRGLRGLTRLRAGNTRIAQL 180  
QY 181 RPEDLAGLAALQELDVSNLSLQALPGDLGLFPRLLRLAAARNPNCVPLSWFGPWVRE 240  
Db 181 RPEDLAGLAALQELDVSNLSLQALPGDLGLFPRLLRLAAARNPNCVPLSWFGPWVRE 240  
QY 241 SHVTLASPEETRCHFPKKNAGRLLELDYADFGCPATTTTATVPTTRPVVREPTALSSSL 300  
Db 241 SHVTLASPEETRCHFPKKNAGRLLELDYADFGCPATTTTATVPTTRPVVREPTALSSSL 300  
QY 301 APTWLSPTAPATEAPSPSTAPPTVGPVPOQDCPPSTCLNGGTCHLGRHHLACLCEP 360  
Db 301 APTWLSPTAPATEAPSPSTAPPTVGPVPOQDCPPSTCLNGGTCHLGRHHLACLCEP 360  
QY 361 FTGLYCSQMGQGRTPSTPTVTPRPRSLLTIGIBPVSPSTSLRVGLRYLQSSVQLRSLR 420

Db	361	FTGLYCESQMGGTAPSPFVTTPRPRSLTTGIEFVSPTSLRVGLQYLOGSSVQLRSLR	420
Qy	421	LTYRNLNSGDPDKELVTLRLPASLAEYTVTQLRPNATYSVCVMPLQPGRVPEGEACGEAHT	480
Db	421	LTYRNLNSGDPDKELVTLRLPASLAEYTVTQLRPNATYSVCVMPLQPGRVPEGEACGEAHT	480
Qy	481	PPAVHSNHAPVTQAREGNLPLLIAPALAAVLLALAAVGAAYCVRRGRMAAAQDKGV	540
Db	481	PPAVHSNHAPVTQAREGNLPLLIAPALAAVLLALAAVGAAYCVRRGRMAAAQDKGV	540
Qy	541	GPCAGPLEGKVPLEPGPKATEGGGALPSGSECEVPLMGFPGLQSLHAKPYI	598
Db	541	GPCAGPLEGKVPLEPGPKATEGGGALPSGSECEVPLMGFPGLQSLHAKPYI	598
RESULT 12			
ABU56312			
ID	ABU56312 standard; protein; 598 AA.		
XX	ABU56312;		
XX	AC		
XX	DT		
XX	31-MAR-2003 (first entry)		
XX	Human secreted/transmembrane protein, PRO357.		
DE	Human; PRO; antiinflammatory; antiarteriosclerotic; cardiant;		
XX	gynecological; anti-HIV; cytostatic; antidiabetic; inflammatory disease;		
KW	organ failure; atherosclerosis; cardiac injury; infertility;		
KW	birth defect; premature aging; AIDS; acquired immunodeficiency syndrome;		
KW	cancer; diabetic complication.		
XX	XX		
OS	Homo sapiens.		
XX	OS		
XX	PN		
XX	US2002132981-A1.		
XX	PD		
XX	19-SEP-2002.		
XX	30-AUG-2001; 2001US-00944396.		
XX	XX		
PR	03-DEC-1997;	97US-0067411P.	
PR	11-DEC-1997;	97US-0069278P.	
PR	11-DEC-1997;	97US-0069334P.	
PR	11-DEC-1997;	97US-0069335P.	
PR	12-DEC-1997;	97US-0069425P.	
PR	16-DEC-1997;	97US-0069694P.	
PR	16-DEC-1997;	97US-0069696P.	
PR	16-DEC-1997;	97US-0069702P.	
PR	17-DEC-1997;	97US-0069870P.	
PR	17-DEC-1997;	97US-0069873P.	
PR	18-DEC-1997;	97US-0068017P.	
PR	05-JAN-1998;	98US-0070440P.	
PR	09-FEB-1998;	98US-0074086P.	
PR	09-FEB-1998;	98US-0074092P.	
PR	25-FEB-1998;	98US-0075945P.	
PR	16-SEP-1998;	98WO-US019330.	
PR	01-DEC-1998;	98WO-US025108.	
PR	16-DEC-1998;	98US-0112850P.	
PR	22-DEC-1998;	98US-0113296P.	
PR	02-JUN-1999;	99WO-US012252.	
PR	28-JUL-1999;	99US-0146222P.	
PR	15-SEP-1999;	99WO-US021090.	
PR	30-NOV-1999;	99WO-US028313.	
PR	30-NOV-1999;	99WO-US028409.	
PR	01-DEC-1999;	99WO-US028301.	
PR	16-DEC-1999;	99WO-US030095.	
PR	11-FEB-2000;	2000WO-US003165.	
PR	22-FEB-2000;	2000WO-US004414.	
PR	02-MAR-2000;	2000WO-US005841.	
PR	30-MAR-2000;	2000WO-US008439.	
PR	22-MAY-2000;	2000WO-US014042.	
PR	28-JUL-2000;	2000WO-US020718.	
PR	01-DEC-2000;	2000WO-US032678.	

PR	28-FEB-2001; 2001WO-US006520.
PR	25-MAY-2001; 2001US-0086028.
XX	(GETH ) GENENTECH INC.
PA	
XX	Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;
PI	Gerritsen ME, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL;
FI	Hillan Ku, Kijavind IO, Napier MA, Roy MA, Tumas D, Wood WI;
XX	WPI; 2003-147446/14.
DR	N-PSDB; ABX75940.
DR	
XX	New isolated PRO polypeptide and encoding nucleic acids, useful for the
PT	diagnosis and treatment of disorders such as inflammatory disease,
FT	atherosclerosis, cardiac injury, infertility, AIDS, cancer and diabetic
PT	complications.
XX	
PS	Claim 12; Fig 26; 171pp; English.
XX	
CC	The invention relates to an isolated PRO polypeptide having at least 80%
CC	amino acid sequence identity to and scoring at least 80% positives when
CC	compared to any of 15 fully defined sequences of 235-954 amino acids,
CC	given in the specification. Also included are: (1) an isolated PRO
CC	nucleic acid having at least 80% nucleic acid sequence identity to a
CC	nucleotide sequence that encodes PRO or its extracellular domain, and
CC	comprising any of 15 fully defined nucleotide sequences of 957-3441 bp,
CC	given in the specification and deposited under ATCC accession number
CC	209526, 209508, 209524, 209528, 209530, 209523, 209492, 209532, 209531,
CC	209529, 209527, 209570, 209618, 209621 and 209619; (2) a vector
CC	comprising the PRO nucleic acid; (3) a host cell comprising the vector;
CC	(4) producing PRO polypeptides, comprising culturing the cell for
CC	expression of the PRO polypeptide and recovering the PRO polypeptide from
CC	the cell culture; (5) a chimeric molecule comprising PRO fused to a
CC	heterologous amino acid sequence; and (6) an anti-PRP antibody. The
CC	methods and compositions are useful for the diagnosis and treatment of
CC	disorders such as inflammatory disease, organ failure, atherosclerosis,
CC	cardiac injury, infertility, birth defects, premature aging, AIDS
CC	(acquired immunodeficiency syndrome), cancer, diabetic complications and
CC	mutations in general. The present sequence is a PRO polypeptide
XX	
SQ	Sequence 598 AA;
	Query Match 100.0%; Score 3135; DB 6; Length 598;
	Best Local Similarity 100.0%; Pred. No. 3.3e-190;
	Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy	1 MCSRVPLLLPLLILLALPGVQCPCSCQCSQPOTVFCTARQGTGTVRDPDVTGLYVF 60
Db	1 MCSRVPLLLPLLILLALPGVQCPCSCQCSQPOTVFCTARQGTGTVRDPDVTGLYVF 60
Qy	61 ENGITMLDASSFAGLPGQLQLDLDSNQIATSLRLPRLLDLLSHNSLLALEPGILDTANVE 120
Db	61 ENGITMLDASSFAGLPGQLQLDLDSNQIATSLRLPRLLDLLSHNSLLALEPGILDTANVE 120
Qy	121 ALRLAGLAGLQQLDEGLFSRLNLHLDVSDNQLERVPVIRGLRGLTFLRLAGNTRIACL 180
Db	121 ALRLAGLAGLQQLDEGLFSRLNLHLDVSDNQLERVPVIRGLRGLTFLRLAGNTRIACL 180
Qy	181 RPEDLAGLAALQEILDVSNLSIQALPGDLGLFPRLRLAAARNPNCVCLSWFGPWVRE 240
Db	181 RPEDLAGLAALQEILDVSNLSIQALPGDLGLFPRLRLAAARNPNCVCLSWFGPWVRE 240
Qy	241 SHVTLASPEETRCHFFPKNAGRLLLELDYADFGPCATTATTTATPTRPVPREPTALSSSL 300
Db	241 SHVTLASPEETRCHFFPKNAGRLLLELDYADFGPCATTATTTATPTRPVPREPTALSSSL 300
Qy	301 APTWLSPATAPATEAPSPSTAPPVTGVGPQPDCCPPSTCLNGGTCHLGTRHHLACLCPEG 360
Db	301 APTWLSPATAPATEAPSPSTAPPVTGVGPQPDCCPPSTCLNGGTCHLGTRHHLACLCPEG 360
Qy	361 FTGLYCQSOMQGGRPSPTPTVRPPRSRLTLIGIEFVSPTSURVLQRYLOQSSVOLRSRLR 420
Db	361 FTGLYCQSOMQGGRPSPTPTVRPPRSRLTLIGIEFVSPTSURVLQRYLOQSSVOLRSRLR 420

QY 421 LTYRNLSPGDKELVTLRLPASLAETVTTOLRNATYSVCMPLGPRVPEGEACGEAHT 480  
Db 421 LTYRNLSPGDKRLVTLRLPASLAETVTTOLRNATYSVCMPLGPRVPEGEACGEAHT 480  
QY 481 PPAVHSNHPVTQAREGNLPLLIAPALAAVLLAALAAVGAAYCVRRGRAMAAAKQGV 540  
Db 481 PPAVHSNHPVTQAREGNLPLLIAPALAAVLLAALAAVGAAYCVRRGRAMAAAKQGV 540  
QY 541 GPGAGPLEGVKVPLEPGPKATGEGGALPSGSECEVPLMGFPQGLQSPHAKPYI 598  
Db 541 GPGAGPLEGVKVPLEPGPKATGEGGALPSGSECEVPLMGFPQGLQSPHAKPYI 598  
RESULT 13  
ABU60352  
ID ABU60352 standard; protein; 598 AA.  
XX AC ABU60352;  
XX DT 28-APR-2003 (first entry)  
XX DE  
XX Novel human secreted and transmembrane protein PRO357.  
XX Secreted and transmembrane polypeptide; PRO; tissue typing; gene therapy;  
KW transgenic; knockout animal; inflammatory disease; organ failure;  
KW atherosclerosis; cardiac injury; infertility; birth defect;  
KW premature aging; acquired immunodeficiency syndrome; AIDS; cancer;  
KW diabetic complication; immune system disorder; proteoglycan release;  
KW sports-related joint problem; human; articular cartilage defect;  
KW osteoarthritis; rheumatoid arthritis;  
KW vascular endothelial cell growth factor stimulated proliferation;  
KW endothelial cell growth; VEGF stimulated proliferation.  
XX OS Homo sapiens.  
XX PN  
XX US2002168715-A1.  
XX PD 14-NOV-2002.  
XX PF  
XX 31-AUG-2001; 2001US-00944896.  
PR 03-DEC-1997; 97US-0067411P.  
PR 11-DEC-1997; 97US-0069278P.  
PR 11-DEC-1997; 97US-0069334P.  
PR 11-DEC-1997; 97US-0069335P.  
PR 12-DEC-1997; 97US-0069425P.  
PR 16-DEC-1997; 97US-0069694P.  
PR 16-DEC-1997; 97US-0069696P.  
PR 16-DEC-1997; 97US-0069702P.  
PR 17-DEC-1997; 97US-0069870P.  
PR 17-DEC-1997; 97US-0069873P.  
PR 18-DEC-1997; 97US-0068017P.  
PR 05-JAN-1998; 98US-0070440P.  
PR 09-FEB-1998; 98US-0074086P.  
PR 09-FEB-1998; 98US-0074092P.  
PR 25-FEB-1998; 98US-0075945P.  
PR 16-SEP-1998; 98WO-US019330.  
PR 01-DEC-1998; 98WO-US025108.  
PR 16-DEC-1998; 98US-00216021.  
PR 16-DEC-1998; 98US-0112850P.  
PR 22-DEC-1998; 98US-0021851P.  
PR 22-DEC-1998; 98US-0113296P.  
PR 03-MAR-1999; 99US-00254311.  
PR 22-JUN-1999; 99WO-US012252.  
PR 28-JUL-1999; 99US-0146222P.  
PR 15-SEP-1999; 99WO-US021090.  
PR 30-NOV-1999; 99WO-US028313.  
PR 30-NOV-1999; 99WO-US028409.  
PR 01-DEC-1999; 99WO-US028301.  
PR 16-DEC-1999; 99WO-US030095.  
PR 11-FEB-2000; 2000WO-US003565.  
PR 22-FEB-2000; 2000WO-US004414.

102-MAR-2000; 2000WO-US005841.  
30-MAR-2000; 2000WO-US008439.  
22-MAY-2000; 2000WO-US014042.  
28-JUL-2000; 2000WO-US020710.  
01-DEC-2000; 2000WO-US032678.  
28-FEB-2001; 2001WO-US006520.  
25-MAY-2001; 2001US-00866028.  
(GETH ) GENENTECH INC.  
Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;  
Gerritsen ME, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL;  
Hillan KJ, Kljavin IJ, Napier MA, Roy MA, Tumas D, Wood WI;  
WPI; 2003-275322/27.  
N-PSDB; ABX89651.  
Novel isolated PRO polypeptides e.g. PRO243, PRO299, PRO323, PRO327,  
PRO344, and polynucleotides useful in the treatment of human disorders  
related to immune system, and in gene therapy.  
Claim 12; Fig 26; 173pp; English.  
The invention describes an isolated secreted and transmembrane  
polypeptide, designated as PRO polypeptide (I) having at least 80 %  
identity to, a 379, 954, 737, 433, 422, 300, 243, 455, 694, 440, 598,  
250, 281, 431 or 235 amino acid sequence (SI), given in the  
specification, SI lacking its associated signal peptide or extracellular  
domain of SI with or without its associated signal peptide. (I) and the  
polynucleotide (II) encoding it are useful in tissue typing and gene  
therapy. (II) is also useful for generating transgenic animals or  
knockout animals for the development and screening of therapeutically  
useful reagents. PRO233 polypeptide is useful for treating inflammatory  
disease, organ failure, atherosclerosis, cardiac injury, infertility,  
birth defects, premature aging, acquired immunodeficiency syndrome  
(AIDS), cancer and diabetic complications. The other PRO polypeptides  
including PRO243, PRO299, PRO323, PRO327, PRO344, PRO347, PRO355,  
PRO355, PRO353, PRO361 and PRO365 are useful for treating human disorders  
involving the immune system. PRO241 is useful for stimulating release of  
proteoglycans from cartilage, and thus for treating sports-related joint  
problems, articular cartilage defects, osteoarthritis and rheumatoid  
arthritis. (I) is also useful for inhibiting vascular endothelial cell  
growth factor (VEGF) stimulated proliferation of endothelial cell growth.  
This is the amino acid sequence of a novel human secreted and  
transmembrane protein  
Sequence 598 AA;  
Query Match 100.0%; Score 3135; DB 6; Length 598;  
Best Local Similarity 100.0%; Pred. No. 3 3e-190;  
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MCSRVPLLLPLLLLLALGPGVQGCSCQCSQPQVFTARQGTTPRDPDPTVGLYVF 60  
Db 1 MCSRVPLLLPLLLLLALGPGVQGCSCQCSQPQVFTARQGTTPRDPDPTVGLYVF 60  
QY 61 ENGITMLDASSFAGLPGQLLDLSNQIASRLPRLLLDLSHNSLALALEGILDANVE 120  
Db 61 ENGITMLDASSFAGLPGQLLDLSNQIASRLPRLLLDLSHNSLALALEGILDANVE 120  
QY 121 ALRLAGLQLOQDEGLFSRLNLHDLVDNQLRPPVIRGLRGLTRLAGNTRIAQL 180  
Db 121 ALRLAGLQLOQDEGLFSRLNLHDLVDNQLRPPVIRGLRGLTRLAGNTRIAQL 180  
QY 181 RPEDLAGLAAQLQELDVNSLSLQALPGDLSGLFPRLRLAAARNPFCVPLSWFGPWVRE 240  
Db 181 RPEDLAGLAAQLQELDVNSLSLQALPGDLSGLFPRLRLAAARNPFCVPLSWFGPWVRE 240  
QY 241 SHVTLASPEETRCHFPFKNAGRLLLELDYADFGCPATTTATVTRPVVREPTALSSSL 300  
Db 241 SHVTLASPEETRCHFPFKNAGRLLLELDYADFGCPATTTATVTRPVVREPTALSSSL 300  
QY 301 APTWLSPTAPATEAPSPPTAPPTVGPVPQDQCPSPCLNGGTCGLGTRHHLACLCEG 360

Db 301 APTWLSPTAPATEAPSPPTAPTVGPVQPCPESTCLNGTCHLGRHHLACLCEG 360  
QY 361 FTGLYCESQMGQGTREPTPTVTPRPRSLTLGIEPVSPSLRVLQRYLQSSVQLRSLR 420  
Db 361 FTGLYCESQMGQGTREPTPTVTPRPRSLTLGIEPVSPSLRVLQRYLQSSVQLRSLR 420  
QY 421 LTYRNLGSPDKRLVTURLPASLAETVTLQLRPNATYSVCVMPPLGGRVPEGEACGEAHT 480  
Db 421 LTYRNLGSPDKRLVTURLPASLAETVTLQLRPNATYSVCVMPPLGGRVPEGEACGEAHT 480  
QY 481 PPAVHSNHAPVTOAREGNPLLIAPALAAVLAALAAVGAAYCVRGRWAAAAQDKGV 540  
Db 481 PPAVHSNHAPVTOAREGNPLLIAPALAAVLAALAAVGAAYCVRGRWAAAAQDKGV 540  
QY 541 GFGAGPLELEGVKVPLEPGPKATEGGGEALPSGSECEVPLMGPPGLOSPHAKPYI 598  
Db 541 GFGAGPLELEGVKVPLEPGPKATEGGGEALPSGSECEVPLMGPPGLOSPHAKPYI 598

RESULT 14  
ABU82099  
ID ABU82099 standard; protein; 598 AA.  
XX AC ABU82099;  
XX DT 25-JUN-2003 (first entry)  
XX DE Novel human secreted and transmembrane protein PRO357.  
XX KW Human; secreted and transmembrane protein; PRO; cardiac; cytostatic;  
KW antitumor; hypotensive; vulnery; antiarteriosclerotic;  
KW gene therapy; cardiovascular disorder; endothelial disorder;  
KW angiogenic disorder; cardiac hypertrophy; trauma; cancer;  
KW age-related macular degeneration; atherosclerosis; hypertension;  
KW arterial restenosis; rheumatoid arthritis; angina; myocardial infarction;  
KW thrombophlebitis; lymphangitis; tumour angiogenesis; breast carcinoma;  
KW liver carcinoma; wound healing; chromosome mapping; gene mapping.  
XX OS Homo sapiens.  
XX PN US2003088063-A1.  
XX PD 08-MAY-2003.  
XX PF 12-AUG-2002; 2002US-00219003.  
XX PR 25-JUL-2000; 2000US-0220664P.  
PR 01-JUN-2001; 2001WO-US017800.  
PR 29-JUN-2001; 2001WO-US021066.  
PR 09-APR-2002; 2002US-00119480.  
XX PA (GETH ) GENENTECH INC.  
XX PI Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ;  
PI Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;  
XX DR WPI: 2003-393229/37.  
XX DR N-PSDB; ACA68548.  
XX PT One hundred and eighty seven nucleic acids encoding PRO polypeptides,  
PT useful in diagnosis and treatment of cardiovascular (e.g. myocardial  
PT infarction), endothelial or angiogenic disorders in a mammal.  
XX PS Claim 11; Fig 104; 314pp; English.  
XX CC The invention describes one hundred and eighty seven nucleic acids  
CC encoding novel human secreted and transmembrane (PRO) polypeptides. The  
CC PRO nucleic acids, polypeptides, agonists and antagonists are useful for  
CC treating or diagnosing a cardiovascular, endothelial or angiogenic  
CC disorder in a mammal, e.g. cardiac hypertrophy, trauma, cancer, age-  
CC related macular degeneration, atherosclerosis, hypertension, arterial  
CC restenosis, rheumatoid arthritis, angina, myocardial infarctions,

CC thrombophlebitis, lymphangitis, tumour angiogenesis (such as breast  
CC carcinoma and liver carcinoma) and wound healing. The PRO nucleic acids  
CC have applications in molecular biology, including use as hybridisation  
CC probes, and in chromosome and gene mapping. This is the amino acid  
CC sequence of a novel human secreted and transmembrane PRO polypeptide  
XX Sequence 598 AA;  
SQ

Query Match 100.0%; Score 3135; DB 6; Length 598;  
Best Local Similarity 100.0%; Pred. No. 3.3e-190;  
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MCSRVPPLLLPILLALLGPGVQCGSCGSCQSQPOTVCTARQTTVPDRVPPDVTGLYVF 60  
Db 1 MCSRVPPLLLPILLALLGPGVQCGSCGSCQSQPOTVCTARQTTVPDRVPPDVTGLYVF 60  
QY 61 ENGITWLDASSFAGLPGQLLDLSONQIASRLPRLLLDLHNSLLALEPGLDITANVE 120  
Db 61 ENGITWLDASSFAGLPGQLLDLSONQIASRLPRLLLDLHNSLLALEPGLDITANVE 120  
QY 121 ALRLAGLGLQDLDEGLFSRLRLHDLVDSDNQLERVPVIRGLRGLTRLRAGNTRIAQL 180  
Db 121 ALRLAGLGLQDLDEGLFSRLRLHDLVDSDNQLERVPVIRGLRGLTRLRAGNTRIAQL 180  
QY 181 RPEDLAGLAALQELDVSNLSLQALPGDLISGLFPRLLLAAARNPFCVPLSFWGFWRE 240  
Db 181 RPEDLAGLAALQELDVSNLSLQALPGDLISGLFPRLLLAAARNPFCVPLSFWGFWRE 240  
QY 241 SHVTLASPEETCHPPKKNAGRLLELDYADFGCPATTTTATVPTTRPVVREPTALSSSL 300  
Db 241 SHVTLASPEETCHPPKKNAGRLLELDYADFGCPATTTTATVPTTRPVVREPTALSSSL 300  
QY 301 APTWLSPTAPATEAPSPPTAPTVGPVQPCPESTCLNGTCHLGRHHLACLCEG 360  
Db 301 APTWLSPTAPATEAPSPPTAPTVGPVQPCPESTCLNGTCHLGRHHLACLCEG 360  
QY 361 FTGLYCESQMGQGTREPTPTVTPRPRSLTLGIEPVSPSLRVLQRYLQSSVQLRSLR 420  
Db 361 FTGLYCESQMGQGTREPTPTVTPRPRSLTLGIEPVSPSLRVLQRYLQSSVQLRSLR 420  
QY 421 LTYRNLGSPDKRLVTURLPASLAETVTLQLRPNATYSVCVMPPLGGRVPEGEACGEAHT 480  
Db 421 LTYRNLGSPDKRLVTURLPASLAETVTLQLRPNATYSVCVMPPLGGRVPEGEACGEAHT 480  
QY 481 PPAVHSNHAPVTOAREGNPLLIAPALAAVLAALAAVGAAYCVRGRWAAAAQDKGV 540  
Db 481 PPAVHSNHAPVTOAREGNPLLIAPALAAVLAALAAVGAAYCVRGRWAAAAQDKGV 540  
QY 541 GFGAGPLELEGVKVPLEPGPKATEGGGEALPSGSECEVPLMGPPGLOSPHAKPYI 598  
Db 541 GFGAGPLELEGVKVPLEPGPKATEGGGEALPSGSECEVPLMGPPGLOSPHAKPYI 598

RESULT 15  
ABU11313  
ID ABU11313 standard; protein; 598 AA.  
XX AC ABU11313;  
XX DT 10-FEB-2003 (first entry)  
XX DE Human pro357 protein sequence.  
XX KW Human; secreted protein; transmembrane protein; PRO241; PRO243; PRO299;  
KW PRO323; PRO327; PRO344; PRO354; PRO355; PRO357; PRO715;  
KW PRO353; PRO361; PRO365; gene therapy.  
XX OS Homo sapiens.  
XX PN US2002127643-A1.  
XX PD 12-SEP-2002.

PF 31-AUG-2001; 2001US-00945587.  
XX 03-DEC-1997; 97US-0067411P.  
PR 11-DEC-1997; 97US-0069278P.  
PR 11-DEC-1997; 97US-0069334P.  
PR 11-DEC-1997; 97US-0069335P.  
PR 12-DEC-1997; 97US-0069425P.  
PR 12-DEC-1997; 97US-0069694P.  
PR 16-DEC-1997; 97US-0069696P.  
PR 16-DEC-1997; 97US-0069702P.  
PR 17-DEC-1997; 97US-0069870P.  
PR 17-DEC-1997; 97US-0069873P.  
PR 18-DEC-1997; 97US-0068017P.  
PR 05-JAN-1998; 98US-0070440P.  
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PR 28-FEB-2001; 2001WO-US006520.  
PR 25-MAY-2001; 2001US-00866028.  
XX (GETH ) GENENTECH INC.  
XX Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;  
PI Gerritsen ME, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL;  
PI Hillan KJ, Kijavini IJ, Napier MA, Roy MA, Tumas D, Wood WI;  
XX WPI; 2003-066898/06.  
DR N-PSDB; ABX34137.  
XX Novel secreted and transmembrane polypeptides useful in tissue typing and  
PT preparing medicament for treating condition which is responsive to the  
PT polypeptide.  
XX Claim 1; Fig 26; 172pp; English.

XX This invention relates to the cDNA and protein sequences of a novel human  
CC secreted and transmembrane proteins such as PRO241, PRO243, PRO299,  
CC PRO323, PRO327, PRO333, PRO344, PRO347, PRO354, PRO355, PRO357, PRO715,  
CC PRO353, PRO361 and PRO365. The proteins of the invention are useful as  
CC molecular weight markers for protein electrophoresis purposes, and as  
CC therapeutic agents. PRO357 polypeptides are useful in assays to determine  
CC if they prolong polypeptides which it may complex with to have longer  
CC half-lives in vivo. The nucleotide sequences of the invention are  
CC useful as hybridisation probes in chromosome and gene mapping and in the  
CC generation of anti-sense RNA and DNA. The nucleotide sequence of the  
CC invention is also useful in the genetic analysis of individuals with  
CC genetic disorders, and in generating transgenic animals or knock out  
CC animals. The cDNA sequences are further useful in gene therapy, and for  
CC generating probes for polymerase chain reaction (PCR), Northern,  
CC Southern, and Western blot analysis. An antibody against the proteins of  
CC the invention may be useful in diagnostic assays for PRO e.g., detecting  
CC its expression in specific cells, tissues or serum. The antibody may also

CC useful for the affinity purification of PRO from recombinant cell culture  
CC or natural sources. The protein sequences and antibodies against them are  
CC useful for preparing a medicament treatment of a condition which is  
CC responsive to these. The present sequence represents a novel human  
CC protein sequence of the invention  
XX  
SQ Sequence 598 AA;

Query Match 100.0%; Score 3135; DB 6; Length 598;  
Best Local Similarity 100.0%; Pred. No. 3.3e-190;  
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MCSRVPLLLPLLLLLALGPGVQGCSCQCSQPTVFCTARQGTTPRDVDPDTVGLVVF	60
Db	1	MCSRVPLLLPLLLLLALGPGVQGCSCQCSQPTVFCTARQGTTPRDVDPDTVGLVVF	60
Qy	61	ENGITMLDASSFAGLPGQLQLLDLSQNIASLRLLRLDLSHNSLLALEPGLDANVE	120
Db	61	ENGITMLDASSFAGLPGQLQLLDLSQNIASLRLLRLDLSHNSLLALEPGLDANVE	120
Qy	121	ALRLAGLQLODDEGLFSLRNLDLVDVSNQLERVPPVIRGLRGLTRLRAGNTRIAQL	180
Db	121	ALRLAGLQLODDEGLFSLRNLDLVDVSNQLERVPPVIRGLRGLTRLRAGNTRIAQL	180
Qy	181	RPEDLAGLAALOEGLDVSNLSIQLPGDLGLFPRLRLAAARNPNCVPLSWFPGWVRE	240
Db	181	RPEDLAGLAALOEGLDVSNLSIQLPGDLGLFPRLRLAAARNPNCVPLSWFPGWVRE	240
Qy	241	SHVTLASPEETRCHFPKPNAGRLLELDYADFGCPATTTTATVTPRVVREPTALSSSL	300
Db	241	SHVTLASPEETRCHFPKPNAGRLLELDYADFGCPATTTTATVTPRVVREPTALSSSL	300
Qy	301	APTWLSPTAPATEAPSPSTAPPTVGPVPODPCPPSTCLNGGTCILGTRHHLACLCEG	360
Db	301	APTWLSPTAPATEAPSPSTAPPTVGPVPODPCPPSTCLNGGTCILGTRHHLACLCEG	360
Qy	361	FTGLYCSOMGQGRPSPTVTPRPRLSLTIGIEPVSTSLRVGLQRYLQSSVQLRSLR	420
Db	361	FTGLYCSOMGQGRPSPTVTPRPRLSLTIGIEPVSTSLRVGLQRYLQSSVQLRSLR	420
Qy	421	LTYNLSGPDKRLVTLRLPASLAETVTLQRPNNATYSVCMPLGPRVPEGEACGEAHT	480
Db	421	LTYNLSGPDKRLVTLRLPASLAETVTLQRPNNATYSVCMPLGPRVPEGEACGEAHT	480
Qy	481	PPAVHSNHAPVTOAREGNLPLLIAPALAAVLLAAVGAAYCVRGRGMAAAADQKQV	540
Db	481	PPAVHSNHAPVTOAREGNLPLLIAPALAAVLLAAVGAAYCVRGRGMAAAADQKQV	540
Qy	541	GPAGAPLELEGVKVPLPGPKATGGGALPSGSECEVPLMGFFPGQLQSPHAKPYI	598
Db	541	GPAGAPLELEGVKVPLPGPKATGGGALPSGSECEVPLMGFFPGQLQSPHAKPYI	598

Search completed: May 12, 2005, 19:09:25  
Job time : 286 secs





101	206	6.6	428	4	US-09-949-016-6625	Sequence 6625, Ap	174	170	5.4	907	4	US-09-170-496D-278	Sequence 278, App
102	206	6.6	433	4	US-09-943-016-8521	Sequence 8521, Ap	175	169.5	5.4	353	6	5340934-4	Patent No. 5340934
103	205	6.5	4339	3	US-09-052-469-6	Sequence 6, Appli	176	169.5	5.4	353	6	5340934-4	Sequence 2, Appli
104	205	6.5	4339	4	US-08-422-582-6	Sequence 6, Appli	177	167	5.3	746	5	PCT-US95-10509-2	Sequence 3, Appli
105	205	6.5	4339	4	US-09-052-262-6	Sequence 2, Appli	178	167	5.3	1112	3	US-09-353-585-3	Sequence 174, App
106	203.5	6.5	4303	2	US-08-460-751-2	Sequence 2, Appli	179	166.5	5.3	224	4	US-09-482-273-174	Sequence 2, Appli
107	203.5	6.5	4303	4	US-09-479-467A-2	Sequence 2, Appli	180	166	5.3	1112	3	US-09-353-585-2	Sequence 185, App
108	200.5	6.4	302	4	US-09-482-273-105	Sequence 105, App	181	164.5	5.2	501	4	US-09-907-794A-185	Sequence 185, App
109	198.5	6.3	1338	4	US-09-631-603-2	Sequence 2, Appli	182	164.5	5.2	501	4	US-09-905-125A-185	Sequence 185, App
110	196.5	6.3	716	4	US-09-312-283C-183	Sequence 183, App	183	164.5	5.2	501	4	US-09-902-775A-185	Sequence 185, App
111	196.5	6.3	771	3	US-09-188-930-183	Sequence 183, App	184	164.5	5.2	501	4	US-09-906-700-185	Sequence 185, App
112	195	6.2	620	4	US-09-907-794A-73	Sequence 73, Appli	185	164.5	5.2	501	4	US-09-903-603A-185	Sequence 185, App
113	195	6.2	620	4	US-09-905-125A-73	Sequence 73, Appli	186	164.5	5.2	501	4	US-09-904-920A-185	Sequence 185, App
114	195	6.2	620	4	US-09-902-775A-73	Sequence 73, Appli	187	164.5	5.2	501	4	US-09-909-064-185	Sequence 185, App
115	195	6.2	620	4	US-09-906-700-73	Sequence 73, Appli	188	164.5	5.2	501	4	US-09-905-381A-185	Sequence 185, App
116	195	6.2	620	4	US-09-903-603A-73	Sequence 73, Appli	189	164.5	5.2	501	4	US-09-906-618-185	Sequence 185, App
117	195	6.2	620	4	US-09-904-920A-73	Sequence 73, Appli	190	164.5	5.2	582	4	US-09-081-149-8	Sequence 8, Appli
118	195	6.2	620	4	US-09-909-064-73	Sequence 73, Appli	191	164.5	5.2	584	4	US-09-949-016-10752	Sequence 10752, A
119	195	6.2	620	4	US-09-905-381A-73	Sequence 73, Appli	192	164	5.2	696	4	US-09-907-794A-91	Sequence 91, Appl
120	195	6.2	620	4	US-09-906-618-73	Sequence 73, Appli	193	164	5.2	696	4	US-09-905-125A-91	Sequence 91, Appl
121	194.5	6.2	699	4	US-09-943-016-6073	Sequence 6073, Ap	194	164	5.2	696	4	US-09-902-775A-91	Sequence 91, Appl
122	194.5	6.2	720	4	US-09-949-016-9819	Sequence 9819, Ap	195	164	5.2	696	4	US-09-906-700-91	Sequence 91, Appl
123	193.5	6.2	224	5	PCT-US91-09055-4	Sequence 4, Appli	196	164	5.2	696	4	US-09-903-603A-91	Sequence 91, Appl
124	190	6.1	1059	4	US-09-907-794A-290	Sequence 290, App	197	164	5.2	696	4	US-09-904-920A-91	Sequence 91, Appl
125	190	6.1	1059	4	US-09-905-125A-290	Sequence 290, App	198	164	5.2	696	4	US-09-909-064-91	Sequence 91, Appl
126	190	6.1	1059	4	US-09-902-775A-290	Sequence 290, App	199	164	5.2	696	4	US-09-905-381A-91	Sequence 91, Appl
127	190	6.1	1059	4	US-09-906-700-290	Sequence 290, App	200	164	5.2	696	4	US-09-906-618-91	Sequence 91, Appl
128	190	6.1	1059	4	US-09-903-603A-290	Sequence 290, App	201	163	5.2	582	4	US-09-081-149-7	Sequence 7, Appli
129	190	6.1	1059	4	US-09-904-920A-290	Sequence 290, App	202	161	5.1	559	4	US-09-081-149-2	Sequence 2, Appli
130	190	6.1	1059	4	US-09-909-064-290	Sequence 290, App	203	160	5.1	942	4	US-10-101-464A-911	Sequence 911, App
131	190	6.1	1059	4	US-09-905-381A-290	Sequence 290, App	204	158	5.0	257	4	US-09-270-767-41554	Sequence 41554, A
132	190	6.1	1059	4	US-09-906-618-290	Sequence 290, App	205	158	5.0	352	4	US-09-949-016-6781	Sequence 6781, Ap
133	190	6.1	1119	4	US-09-907-794A-294	Sequence 294, App	206	158	5.0	374	4	US-09-949-016-7689	Sequence 7689, Ap
134	190	6.1	1119	4	US-09-905-125A-294	Sequence 294, App	207	157.5	5.0	236	1	US-08-442-063A-42	Sequence 42, Appl
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136	190	6.1	1119	4	US-09-906-700-294	Sequence 294, App	209	156	5.0	975	4	US-09-949-016-7595	Sequence 7595, Ap
137	190	6.1	1119	4	US-09-903-603A-294	Sequence 294, App	210	154.5	4.9	377	4	US-09-949-016-7949	Sequence 7949, Ap
138	190	6.1	1119	4	US-09-904-920A-294	Sequence 294, App	211	154.5	4.9	1495	4	US-08-522-726B-1	Sequence 1, Appli
139	190	6.1	1119	4	US-09-909-064-294	Sequence 294, App	212	154.5	4.9	1495	4	US-08-337-384-1	Sequence 1, Appli
140	190	6.1	1119	4	US-09-905-381A-294	Sequence 294, App	213	153.5	4.9	894	1	US-08-372-892-2	Sequence 2, Appli
141	190	6.1	1119	4	US-09-906-618-294	Sequence 294, App	214	153.5	4.9	894	1	US-08-445-640-34	Sequence 34, Appl
142	186.5	5.9	196	5	PCT-US91-09055-6	Sequence 6, Appli	215	153.5	4.9	894	3	US-08-170-558-34	Sequence 34, Appl
143	186.5	5.9	844	4	US-09-949-016-9438	Sequence 9438, Ap	216	153.5	4.9	894	3	US-08-447-314-34	Sequence 34, Appl
144	186	5.9	440	4	US-09-538-092-999	Sequence 999, App	217	153.5	4.9	894	3	US-08-445-461-34	Sequence 34, Appl
145	186	5.9	451	4	US-09-538-092-999	Sequence 999, App	218	153.5	4.9	894	3	US-08-445-461-34	Sequence 34, Appl
146	184	5.9	320	1	US-07-613-083B-1	Sequence 1, Appli	219	153	4.9	679	4	US-09-252-991A-18857	Sequence 18857, A
147	184	5.9	368	4	US-09-949-016-6115	Sequence 6115, Ap	220	153	4.9	699	4	US-10-237-551-143	Sequence 143, App
148	184	5.9	382	4	US-09-949-016-10542	Sequence 10542, A	221	153	4.9	699	4	US-10-237-551-254	Sequence 254, App
149	183	5.8	662	4	US-09-538-092-1325	Sequence 1325, Ap	222	153	4.9	1248	4	US-10-042-810-2	Sequence 2, Appli
150	183	5.8	662	4	US-09-949-016-6619	Sequence 6619, Ap	223	153	4.9	1278	4	US-10-042-810-4	Sequence 4, Appli
151	183	5.8	379	4	US-09-866-028-2	Sequence 2, Appli	224	151.5	4.8	1964	3	US-09-467-997-1	Sequence 1, Appli
152	182.5	5.8	379	4	US-09-944-457-2	Sequence 2, Appli	225	151	4.8	532	4	US-09-270-767-46234	Sequence 46234, A
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154	182.5	5.8	368	1	US-08-303-238-3	Sequence 3, Appli	227	150.5	4.8	695	3	US-08-482-855-2	Sequence 2, Appli
155	178	5.7	368	1	US-08-458-834-3	Sequence 3, Appli	228	150.5	4.8	695	3	US-08-474-986-2	GENERAL INFORMA
156	178	5.7	368	3	US-08-458-834-3	Sequence 3, Appli	229	150	4.8	259	4	US-09-907-794A-71	Sequence 71, Appl
157	178	5.7	1052	4	US-09-949-016-11508	Sequence 11508, A	230	150	4.8	259	4	US-09-905-125A-71	Sequence 71, Appl
158	175	5.6	368	6	5340934-2	Patent No. 5340934	231	150	4.8	259	4	US-09-902-775A-71	Sequence 71, Appl
159	175	5.6	368	6	5340934-2	Patent No. 5340934	232	150	4.8	259	4	US-09-906-700-71	Sequence 71, Appl
160	173.5	5.5	998	4	US-10-101-464A-914	Sequence 914, App	233	150	4.8	259	4	US-09-903-603A-71	Sequence 71, Appl
161	172.5	5.5	282	1	US-08-442-063A-45	Sequence 45, Appl	234	150	4.8	259	4	US-09-904-920A-71	Sequence 71, Appl
162	172.5	5.5	307	1	US-08-442-063A-48	Sequence 48, Appl	235	150	4.8	259	4	US-09-909-064-71	Sequence 71, Appl
163	172.5	5.5	333	1	US-08-442-063A-27	Sequence 27, Appl	236	150	4.8	259	4	US-09-905-381A-71	Sequence 71, Appl
164	172.5	5.5	342	1	US-08-272-919-2	Sequence 2, Appli	237	150	4.8	259	4	US-09-906-618-71	Sequence 71, Appl
165	172.5	5.5	342	1	US-08-619-916-2	Sequence 2, Appli	238	149	4.8	1012	2	US-08-475-891A-4	Sequence 4, Appli
166	172.5	5.5	342	5	PCT-US95-08542-2	Sequence 2, Appli	239	149	4.8	1025	2	US-08-567-375-4	Sequence 4, Appli
167	172.5	5.5	359	1	US-08-303-238-4	Sequence 4, Appli	240	149	4.8	1025	2	US-08-587-680A-4	Sequence 4, Appli
168	172.5	5.5	359	3	US-08-458-834-4	Sequence 4, Appli	241	149	4.8	1026	4	US-09-623-551-18	Sequence 18, Appl
169	172.5	5.5	359	4	US-09-538-092-868	Sequence 868, App	242	149	4.8	1504	4	US-09-364-206-2	Sequence 2, Appli
170	172.5	5.5	359	4	US-09-949-016-6143	Sequence 6143, Ap	243	149	4.8	1874	4	US-09-331-403-2	Sequence 2, Appli
171	172.5	5.5	360	4	US-09-949-016-7925	Sequence 7925, Ap	244	148.5	4.7	375	1	US-08-303-238-2	Sequence 2, Appli
172	170.5	5.4	373	3	US-09-724-864-43	Sequence 43, Appl	245	148.5	4.7	375	3	US-08-458-834-2	Sequence 2, Appli
173	170	5.4	907	4	US-09-170-496D-264	Sequence 264, App	246	147.5	4.7	570	4	US-09-565-501A-104	Sequence 104, App

247	147.5	4.7	570	4	US-09-639-206A-104	Sequence 104, App	320	131	4.2	180	3	US-08-986-485-8	Sequence 8, Appli
248	147.5	4.7	570	4	US-09-874-923-104	Sequence 104, App	321	131	4.2	227	4	US-10-101-464A-666	Sequence 666, App
249	147	4.7	177	4	US-09-270-767-32705	Sequence 32705, A	322	131	4.2	279	4	US-09-270-767-41558	Sequence 41558, A
250	147	4.7	177	4	US-09-270-767-47922	Sequence 47922, A	323	131	4.2	407	4	US-09-270-767-46649	Sequence 46649, A
251	147	4.7	265	4	US-09-270-767-45056	Sequence 45056, A	324	131	4.2	799	3	US-09-180-439-6	Sequence 6, Appli
252	147	4.7	2414	1	US-08-227-536-2	Sequence 2, Appli	325	131	4.2	947	3	US-09-228-986-73	Sequence 73, Appli
253	147	4.7	2414	4	US-09-538-092-1289	Sequence 1289, Ap	326	131	4.2	947	4	US-10-101-464A-73	Sequence 73, Appli
254	147	4.7	2414	5	PCT-US95-04682-2	Sequence 2, Appli	327	131	4.2	1062	4	US-09-903-540-16313	Sequence 16313, A
255	146.5	4.7	1404	3	US-08-400-159-2	Sequence 2, Appli	328	131	4.2	1196	3	US-08-881-706-2	Sequence 2, Appli
256	146.5	4.7	1404	3	US-08-611-729A-2	Sequence 2, Appli	329	131	4.2	1196	4	US-09-823-394-2	Sequence 2, Appli
257	146.5	4.7	1404	3	US-09-195-524-2	Sequence 2, Appli	330	131	4.2	1938	4	US-09-949-016-6609	Sequence 6609, Ap
258	146	4.7	786	3	US-09-103-429A-3	Sequence 3, Appli	331	130.5	4.2	843	4	US-10-101-464A-893	Sequence 893, App
259	146	4.7	788	4	US-09-294-663-3	Sequence 3, Appli	332	130.5	4.2	878	4	US-09-556-706B-2	Sequence 2, Appli
260	146	4.7	885	1	US-08-372-892-4	Sequence 4, Appli	333	130.5	4.2	878	4	US-09-724-418A-2	Sequence 2, Appli
261	146	4.7	885	4	US-09-919-497-52	Sequence 52, Appli	334	130.5	4.2	3729	2	US-08-804-227C-4	Sequence 4, Appli
262	145.5	4.6	2142	4	US-09-938-092-1142	Sequence 1142, Ap	335	130	4.1	645	4	US-10-101-464A-920	Sequence 920, App
263	145	4.6	353	4	US-09-949-016-7923	Sequence 7923, Ap	336	129.5	4.1	550	4	US-09-252-991A-21295	Sequence 21295, A
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265	144	4.6	661	2	US-08-833-823-4	Sequence 4, Appli	338	129	4.1	363	4	US-09-270-767-44030	Sequence 44030, A
266	143.5	4.6	1274	3	US-09-095-443-2	Sequence 2, Appli	339	129	4.1	823	4	US-09-252-991A-23655	Sequence 23655, A
267	142.5	4.5	141	4	US-09-270-767-31706	Sequence 31706, A	340	129	4.1	885	4	US-09-252-991A-26129	Sequence 26129, A
268	142.5	4.5	141	4	US-09-270-767-46923	Sequence 46923, A	341	129	4.1	1133	4	US-10-101-464A-809	Sequence 809, App
269	142.5	4.5	805	3	US-09-103-429A-4	Sequence 4, Appli	342	129	4.1	1940	2	US-08-644-271-30	Sequence 30, Appli
270	142.5	4.5	807	4	US-09-294-663-4	Sequence 4, Appli	343	129	4.1	1940	4	US-09-077-955-34	Sequence 34, Appli
271	142	4.5	365	4	US-10-101-464A-901	Sequence 901, App	344	129	4.1	2321	4	US-09-230-652-2	Sequence 2, Appli
272	140.5	4.5	345	4	US-10-101-464A-802	Sequence 802, App	345	128.5	4.1	188	1	US-08-442-063A-39	Sequence 39, Appli
273	140.5	4.5	376	1	US-08-303-238-1	Sequence 1, Appli	346	128.5	4.1	446	2	US-08-836-854-15	Sequence 15, Appli
274	140.5	4.5	376	3	US-08-458-834-1	Sequence 1, Appli	347	128.5	4.1	653	4	US-10-101-464A-953	Sequence 953, App
275	140	4.5	283	4	US-09-949-016-7910	Sequence 7910, Ap	348	128.5	4.1	864	4	US-10-101-464A-896	Sequence 896, App
276	140	4.5	547	4	US-10-101-464A-928	Sequence 928, App	349	128.5	4.1	865	4	US-09-902-540-10416	Sequence 10416, A
277	139	4.4	5179	4	US-09-538-092-1258	Sequence 1258, Ap	350	128.5	4.1	1023	2	US-08-475-891A-2	Sequence 2, Appli
278	138	4.4	323	4	US-09-949-016-7924	Sequence 7924, Ap	351	128.5	4.1	1023	2	US-08-567-375-2	Sequence 2, Appli
279	137.5	4.4	141	4	US-09-270-767-45511	Sequence 45511, A	352	128.5	4.1	1023	2	US-08-587-680A-2	Sequence 2, Appli
280	137.5	4.4	884	6	5208144-8	Patent No. 5208144	353	128	4.1	475	4	US-09-252-991A-30242	Sequence 30242, A
281	137.5	4.4	884	6	5208144-8	Patent No. 5208144	354	128	4.1	538	2	US-08-541-759B-2	Sequence 2, Appli
282	137	4.4	4544	1	US-08-469-486-52	Sequence 52, Appli	355	128	4.1	717	4	US-10-101-464A-810	Sequence 810, App
283	137	4.4	4544	2	US-08-469-658-52	Sequence 52, Appli	356	127.5	4.1	1522	4	US-10-144-198-31	Sequence 31, Appli
284	136.5	4.4	984	4	US-10-101-464A-919	Sequence 919, App	357	127.5	4.1	3969	3	US-08-061-376-5	Sequence 5, Appli
285	136.5	4.4	2972	3	US-09-579-181-2	Sequence 2, Appli	358	127.5	4.1	3969	4	US-09-538-092-1262	Sequence 1262, Ap
286	136.5	4.4	3118	3	US-09-579-181-1	Sequence 1, Appli	359	127	4.1	260	4	US-09-270-767-32658	Sequence 32658, A
287	136	4.3	692	3	US-07-757-342D-6	Sequence 6, Appli	360	127	4.1	615	4	US-09-252-991A-26695	Sequence 26695, A
288	136	4.3	692	4	US-09-461-657B-6	Sequence 6, Appli	361	126.5	4.0	141	4	US-09-270-767-32244	Sequence 32244, A
289	135.5	4.3	536	4	US-09-252-991A-31124	Sequence 31124, A	362	126.5	4.0	141	4	US-09-270-767-47461	Sequence 47461, A
290	135	4.3	446	4	US-10-101-464A-733	Sequence 733, App	363	126.5	4.0	659	4	US-09-423-753-3	Sequence 3, Appli
291	135	4.3	538	4	US-09-616-289-43	Sequence 43, Appli	364	126.5	4.0	685	3	US-08-872-855-2	Sequence 2, Appli
292	135	4.3	723	4	US-09-434-408-2	Sequence 2, Appli	365	126.5	4.0	685	4	US-09-423-753-25	Sequence 25, Appli
293	135	4.3	907	3	US-08-783-774-2	Sequence 2, Appli	366	126.5	4.0	685	4	US-09-641-612-7	Sequence 7, Appli
294	135	4.3	907	4	US-09-328-599A-1	Sequence 1, Appli	367	126.5	4.0	919	4	US-10-101-464A-642	Sequence 642, App
295	135	4.3	907	5	PCT-US95-04611A-19	Sequence 19, Appli	368	126.5	4.0	999	2	US-08-473-553A-5	Sequence 5, Appli
296	134.5	4.3	802	4	US-09-823-240A-2	Sequence 2, Appli	369	126	4.0	143	4	US-09-893-737-190	Sequence 190, App
297	134	4.3	536	4	US-09-292-225-21	Sequence 21, Appli	370	126	4.0	152	4	US-09-270-767-33594	Sequence 33594, A
298	134	4.3	550	4	US-09-616-289-47	Sequence 47, Appli	371	126	4.0	775	4	US-09-949-016-8799	Sequence 8799, Ap
299	134	4.3	555	4	US-09-292-225-15	Sequence 15, Appli	372	126	4.0	1821	4	US-09-949-016-5938	Sequence 5938, Ap
300	134	4.3	555	4	US-09-292-225-18	Sequence 18, Appli	373	125.5	4.0	440	3	US-08-985-335-3	Sequence 3, Appli
301	133.5	4.3	1166	4	US-10-101-464A-900	Sequence 900, App	374	125.5	4.0	440	3	US-09-410-372-3	Sequence 3, Appli
302	133	4.2	4391	4	US-10-006-011A-2	Sequence 2, Appli	375	125.5	4.0	764	3	US-07-741-453A-54	Sequence 54, Appli
303	132.5	4.2	390	3	US-08-460-576-2	Sequence 2, Appli	376	125.5	4.0	764	3	US-07-741-453A-60	Sequence 60, Appli
304	132.5	4.2	463	2	US-08-162-402B-9	Sequence 9, Appli	377	125.5	4.0	1129	4	US-09-023-905A-2	Sequence 2, Appli
305	132.5	4.2	579	4	US-09-325-932A-185	Sequence 185, App	378	125	4.0	757	4	US-09-252-991A-25918	Sequence 25918, A
306	132.5	4.2	583	4	US-09-641-612-5	Sequence 2, Appli	379	125	4.0	957	4	US-09-252-991A-20408	Sequence 20408, A
307	132.5	4.2	2035	1	US-08-046-585-2	Sequence 5, Appli	380	125	4.0	1139	4	US-09-513-505-2	Sequence 2, Appli
308	132.5	4.2	2035	1	US-08-393-703-5	Sequence 5, Appli	381	125	4.0	2023	4	US-09-491-356C-8	Sequence 8, Appli
309	132.5	4.2	2035	5	PCT-US93-11721-5	Sequence 5, Appli	382	125	4.0	2124	4	US-09-538-092-1377	Sequence 1377, Ap
310	132.5	4.2	2045	4	US-09-949-016-10491	Sequence 10491, A	383	125	4.0	2294	4	US-09-252-991A-17231	Sequence 17231, A
311	132.5	4.2	3122	4	US-10-237-551-201	Sequence 201, App	384	124.5	4.0	107	4	US-09-270-767-61021	Sequence 61021, A
312	132.5	4.2	3122	4	US-10-237-551-250	Sequence 250, App	385	124.5	4.0	298	3	US-09-232-160-17	Sequence 17, Appli
313	132	4.2	287	4	US-09-893-737-110	Sequence 110, App	386	124.5	4.0	298	4	US-09-800-729-87	Sequence 87, Appli
314	132	4.2	465	2	US-08-162-402B-8	Sequence 8, Appli	387	124.5	4.0	298	4	US-09-800-729-121	Sequence 121, App
315	132	4.2	705	4	US-10-101-464A-894	Sequence 894, App	388	124.5	4.0	298	4	US-10-000-489-22	Sequence 22, Appli
316	132	4.2	979	3	US-08-514-213A-2	Sequence 2, Appli	389	124.5	4.0	307	4	US-09-949-016-9817	Sequence 9817, Ap
317	132	4.2	979	4	US-09-015-393-5	Sequence 5, Appli	390	124.5	4.0	307	4	US-09-949-016-9818	Sequence 9818, Ap
318	132	4.2	1003	4	US-09-949-016-11260	Sequence 11260, A	391	124.5	4.0	546	4	US-09-907-794A-250	Sequence 250, App
319	131.5	4.2	571	4	US-09-252-991A-30533	Sequence 30533, A	392	124.5	4.0	546	4	US-09-905-125A-250	Sequence 250, App

393	124.5	4.0	546	4	US-09-902-775A-250	Sequence 250, App	466	120.5	3.8	562	4	US-09-902-540-13269	Sequence 13269, A
394	124.5	4.0	546	4	US-09-906-700-250	Sequence 250, App	467	120.5	3.8	787	3	US-09-721-383-2	Sequence 2, Appli
395	124.5	4.0	546	4	US-09-903-603A-250	Sequence 250, App	468	120.5	3.8	787	3	US-09-721-137-2	Sequence 2, Appli
396	124.5	4.0	546	4	US-09-904-920A-250	Sequence 250, App	469	120.5	3.8	787	3	US-09-721-251-2	Sequence 2, Appli
397	124.5	4.0	546	4	US-09-905-064-250	Sequence 250, App	470	120.5	3.8	787	4	US-10-114-764-2	Sequence 2, Appli
398	124.5	4.0	546	4	US-09-905-381A-250	Sequence 250, App	471	120.5	3.8	998	4	US-10-101-464A-931	Sequence 931, App
399	124.5	4.0	546	4	US-09-906-618-250	Sequence 250, App	472	120.5	3.8	1104	4	US-09-981-953A-4	Sequence 4, Appli
400	124.5	4.0	623	4	US-09-909-016-6530	Sequence 6530, App	473	120.5	3.8	1665	4	US-09-858-664A-2	Sequence 2, Appli
401	124.5	4.0	998	4	US-10-101-464A-895	Sequence 895, App	474	120.5	3.8	1665	4	US-10-274-978-2	Sequence 2, Appli
402	124.5	4.0	1042	4	US-09-252-991A-30444	Sequence 30444, A	475	120.5	3.8	1665	4	US-10-697-363-2	Sequence 2, Appli
403	124.5	4.0	1709	4	US-09-949-016-10503	Sequence 10503, A	476	120	3.8	130	4	US-09-270-767-33086	Sequence 33086, A
404	124	4.0	277	3	US-07-741-453A-58	Sequence 58, Appl	477	120	3.8	130	4	US-09-270-767-483303	Sequence 48303, A
405	124	4.0	707	3	US-09-228-986-80	Sequence 80, Appl	478	120	3.8	467	3	US-09-046-736-2	Sequence 3, Appli
406	124	4.0	707	4	US-10-101-464A-80	Sequence 80, Appl	479	120	3.8	523	2	US-08-473-553A-3	Sequence 3, Appli
407	124	4.0	1457	3	US-08-665-259-27	Sequence 27, Appl	480	120	3.8	569	4	US-09-514-245-22	Sequence 22, Appl
408	124	4.0	1457	3	US-08-762-500-27	Sequence 27, Appl	481	120	3.8	603	4	US-09-906-779-4	Sequence 4, Appli
409	124	4.0	1472	4	US-09-032-438C-119	Sequence 119, App	482	120	3.8	2556	1	US-08-185-432-17	Sequence 17, Appl
410	123.5	3.9	1312	3	US-09-041-886-19	Sequence 19, Appl	483	120	3.8	2556	4	US-08-899-232-2	Sequence 2, Appli
411	123.5	3.9	1312	4	US-09-648-281-2	Sequence 2, Appli	484	120	3.8	2556	4	US-09-121-457-2	Sequence 2, Appli
412	123.5	3.9	1312	4	US-09-707-919A-19	Sequence 19, Appl	485	119.5	3.8	520	4	US-09-107-433-3721	Sequence 3721, Ap
413	123.5	3.9	1312	4	US-09-083-268-3	Sequence 3, Appli	486	119.5	3.8	608	4	US-09-949-016-11148	Sequence 11148, A
414	123	3.9	383	4	US-10-101-464A-898	Sequence 898, App	487	119.5	3.8	608	4	US-09-949-016-11149	Sequence 11149, A
415	123	3.9	526	4	US-09-252-991A-23688	Sequence 23688, A	488	119.5	3.8	608	4	US-09-949-016-11150	Sequence 11150, A
416	123	3.9	557	4	US-09-248-796A-26892	Sequence 26892, A	489	119.5	3.8	608	4	US-09-949-016-11151	Sequence 11151, A
417	123	3.9	888	1	US-08-445-640-35	Sequence 35, Appl	490	119.5	3.8	1034	4	US-09-252-991A-28921	Sequence 28921, A
418	123	3.9	888	3	US-08-170-558-35	Sequence 35, Appl	491	119.5	3.8	1048	4	US-09-171-699-10	Sequence 10, Appl
419	123	3.9	888	3	US-08-447-314-35	Sequence 35, Appl	492	119.5	3.8	1149	3	US-08-560-005-5	Sequence 5, Appli
420	123	3.9	888	3	US-08-445-461-35	Sequence 35, Appl	493	119.5	3.8	1149	3	US-09-418-540-5	Sequence 5, Appli
421	123	3.9	888	4	US-09-223-490-35	Sequence 35, Appl	494	119.5	3.8	1149	4	US-09-969-528-5	Sequence 5, Appli
422	123	3.9	924	1	US-08-481-130-28	Sequence 28, Appl	495	119.5	3.8	1596	4	US-09-538-092-887	Sequence 887, App
423	123	3.9	924	1	US-08-656-984A-28	Sequence 28, Appl	496	119	3.8	304	4	US-10-101-464A-717	Sequence 717, App
424	123	3.9	924	1	US-08-485-604-28	Sequence 28, Appl	497	119	3.8	319	3	US-08-630-172-12	Sequence 12, Appl
425	123	3.9	924	2	US-08-487-595-28	Sequence 28, Appl	498	119	3.8	319	3	US-09-375-419-12	Sequence 12, Appl
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427	122.5	3.9	585	4	US-09-641-612-5	Sequence 5, Appli	500	119	3.8	593	4	US-09-252-991A-20441	Sequence 20441, A
428	122.5	3.9	596	4	US-09-253-991A-18875	Sequence 18875, A	501	119	3.8	784	4	US-09-982-308B-23	Sequence 23, Appl
429	122.5	3.9	968	3	US-09-180-439-3	Sequence 3, Appli	502	119	3.8	1081	3	US-09-369-364A-17	Sequence 17, Appl
430	122.5	3.9	968	3	US-09-180-439-4	Sequence 4, Appli	503	118.5	3.8	171	4	US-09-270-767-43049	Sequence 43049, A
431	122.5	3.9	1016	3	US-09-180-439-8	Sequence 8, Appli	504	118.5	3.8	422	4	US-09-949-016-8251	Sequence 8251, Ap
432	122	3.9	191	4	US-09-461-325-186	Sequence 186, App	505	118.5	3.8	430	4	US-09-949-016-8782	Sequence 8782, Ap
433	122	3.9	191	4	US-10-0115-542-186	Sequence 186, App	506	118.5	3.8	486	1	US-08-450-360-2	Sequence 2, Appli
434	122	3.9	191	4	US-10-115-123-186	Sequence 186, App	507	118.5	3.8	1321	2	US-08-317-110A-64	Sequence 64, Appl
435	122	3.9	206	4	US-09-461-325-412	Sequence 412, App	508	118	3.8	149	4	US-09-270-767-32618	Sequence 32618, A
436	122	3.9	206	4	US-10-012-542-412	Sequence 412, App	509	118	3.8	149	4	US-09-270-767-47835	Sequence 47835, A
437	122	3.9	206	4	US-10-115-123-412	Sequence 412, App	510	118	3.8	462	2	US-09-252-991A-20814	Sequence 20814, A
438	122	3.9	312	4	US-09-270-767-31750	Sequence 31750, A	511	118	3.8	947	4	US-09-252-991A-21335	Sequence 21335, A
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440	122	3.9	328	1	US-08-926-922-9	Sequence 9, Appli	513	118	3.8	1064	4	US-09-252-991A-17508	Sequence 17508, A
441	122	3.9	328	3	US-09-253-682-9	Sequence 9, Appli	514	118	3.8	1084	2	US-09-227-725A-3	Sequence 3, Appli
442	122	3.9	328	3	US-09-527-657-9	Sequence 9, Appli	515	118	3.8	1864	2	US-08-804-227C-3	Sequence 3, Appli
443	122	3.9	328	4	US-09-892-100-9	Sequence 9, Appli	516	118	3.8	2471	1	US-08-185-432-16	Sequence 16, Appl
444	122	3.9	481	4	US-09-949-016-9748	Sequence 9748, App	517	118	3.8	2471	1	US-08-083-590A-19	Sequence 19, Appl
445	122	3.9	495	4	US-09-252-991A-31949	Sequence 31949, A	518	118	3.8	2471	3	US-08-532-384-19	Sequence 19, Appl
446	122	3.9	515	4	US-09-252-991A-28127	Sequence 28127, A	519	118	3.8	2471	4	US-08-899-232-1	Sequence 1, Appli
447	122	3.9	527	4	US-09-370-838-216	Sequence 216, App	520	118	3.8	2471	4	US-09-121-457-1	Sequence 1, Appli
448	122	3.9	527	4	US-09-854-133-216	Sequence 216, App	521	117.5	3.7	189	4	US-09-513-999C-4304	Sequence 4304, Ap
449	121.5	3.9	320	4	US-09-325-932A-190	Sequence 190, App	522	117.5	3.7	189	4	US-10-101-464A-517	Sequence 517, App
450	121.5	3.9	477	4	US-09-252-991A-19831	Sequence 19831, A	523	117.5	3.7	190	1	US-08-441-629-4	Sequence 4, Appli
451	121.5	3.9	695	4	US-09-248-796A-18020	Sequence 18020, A	524	117.5	3.7	190	3	US-08-776-207-4	Sequence 4, Appli
452	121.5	3.9	1225	4	US-09-501-171-4	Sequence 4, Appli	525	117.5	3.7	190	3	US-09-507-773-4	Sequence 4, Appli
453	121.5	3.9	1225	4	US-09-949-016-6063	Sequence 6063, App	526	117.5	3.7	190	5	PCT-US95-09172-4	Sequence 4, Appli
454	121.5	3.9	1251	5	PCT-US95-02251-3	Sequence 3, Appli	527	117.5	3.7	247	4	US-10-101-464A-730	Sequence 730, App
455	121.5	3.9	1252	1	US-08-199-780-3	Sequence 3, Appli	528	117.5	3.7	563	3	US-09-252-991A-17549	Sequence 17549, A
456	121.5	3.9	1252	2	US-08-316-650-3	Sequence 3, Appli	529	117.5	3.7	635	2	US-08-484-101B-36	Sequence 36, Appl
457	121.5	3.9	1253	3	US-08-479-722B-4	Sequence 4, Appli	530	117.5	3.7	635	2	US-08-484-101B-50	Sequence 50, Appl
458	121.5	3.9	1253	4	US-09-592-685-4	Sequence 4, Appli	531	117.5	3.7	635	3	US-08-714-524D-36	Sequence 36, Appl
459	121	3.9	499	3	US-09-049-672A-1	Sequence 1, Appli	532	117.5	3.7	635	3	US-08-714-524D-50	Sequence 50, Appl
460	121	3.9	739	4	US-09-902-540-10606	Sequence 10606, A	533	117.5	3.7	986	4	US-10-101-464A-889	Sequence 889, App
461	121	3.9	910	3	US-09-228-986-72	Sequence 72, Appl	534	117.5	3.7	996	4	US-10-101-464A-933	Sequence 933, App
462	121	3.9	910	4	US-10-101-464A-72	Sequence 72, Appl	535	117.5	3.7	1118	4	US-09-252-991A-24340	Sequence 24340, A
463	121	3.9	1139	4	US-09-513-505-4	Sequence 4, Appli	536	117.5	3.7	1706	2	US-08-459-568-2	Sequence 2, Appli
464	120.5	3.8	141	1	US-08-442-063A-36	Sequence 36, Appl	537	117.5	3.7	1706	2	US-08-399-411-2	Sequence 2, Appli
465	120.5	3.8	426	4	US-09-252-991A-24450	Sequence 24450, A	538	117.5	3.7	1706	3	US-08-516-859A-2	Sequence 2, Appli

539	117.5	3.7	1706	3	US-09-586-472-2	Sequence 2, Appli	612	114.5	3.7	1162	3	US-09-298-568-2	Sequence 2, Appli
540	117.5	3.7	1706	4	US-09-528-706-2	Sequence 2, Appli	613	114.5	3.7	1162	4	US-09-410-399-2	Sequence 2, Appli
541	117	3.7	401	4	US-09-252-991A-32529	Sequence 32529, A	614	114.5	3.7	1162	4	US-09-894-273-2	Sequence 2, Appli
542	117	3.7	655	1	US-08-148-910-12	Sequence 12, Appl	615	114.5	3.7	1187	3	US-09-068-740A-7	Sequence 7, Appli
543	117	3.7	655	1	US-08-448-937A-12	Sequence 12, Appl	616	114.5	3.7	1208	3	US-09-199-865-1	Sequence 1, Appli
544	117	3.7	809	3	US-09-252-991A-31759	Sequence 31759, A	617	114.5	3.7	1208	4	US-10-213-323-1	Sequence 1, Appli
545	117	3.7	880	4	US-09-252-991A-23787	Sequence 23787, A	618	114.5	3.7	1218	2	US-08-400-159-6	Sequence 6, Appli
546	117	3.7	980	2	US-08-473-553A-6	Sequence 6, Appli	619	114.5	3.7	1218	3	US-08-611-729A-6	Sequence 6, Appli
547	117	3.7	985	3	US-08-473-553A-2	Sequence 2, Appli	620	114.5	3.7	1218	3	US-08-882-046-2	Sequence 2, Appli
548	117	3.7	1055	3	US-09-214-278-2	Sequence 2, Appli	621	114.5	3.7	1218	3	US-09-068-740A-11	Sequence 11, Appli
549	117	3.7	1055	4	US-09-855-722-2	Sequence 2, Appli	622	114.5	3.7	1218	4	US-09-566-047-2	Sequence 2, Appli
550	117	3.7	1148	3	US-08-982-046-4	Sequence 4, Appli	623	114.5	3.7	1218	4	US-09-917-254-85	Sequence 85, Appli
551	117	3.7	1148	4	US-09-566-047-4	Sequence 4, Appli	624	114.5	3.7	1218	4	US-09-195-524-6	Sequence 6, Appli
552	117	3.7	1193	2	US-08-400-159-10	Sequence 10, Appl	625	114.5	3.7	1218	4	US-09-579-536C-1	Sequence 1, Appli
553	117	3.7	1193	3	US-08-611-729A-10	Sequence 10, Appl	626	114.5	3.7	1218	4	US-09-949-016-5902	Sequence 5902, Ap
554	117	3.7	1193	4	US-09-195-524-10	Sequence 10, Appl	627	114.5	3.7	1254	4	US-09-949-016-10297	Sequence 10297, A
555	117	3.7	1212	3	US-09-214-278-3	Sequence 3, Appli	628	114.5	3.7	1254	4	US-09-949-016-6930	Sequence 6930, Ap
556	117	3.7	1212	4	US-09-855-722-3	Sequence 3, Appli	629	114	3.6	111	3	US-09-220-528-53	Sequence 53, Appl
557	117	3.7	1238	3	US-09-214-278-5	Sequence 5, Appli	630	114	3.6	224	3	US-09-220-528-29	Sequence 29, Appl
558	117	3.7	1238	4	US-09-855-722-5	Sequence 5, Appli	631	114	3.6	224	4	US-09-347-613C-16	Sequence 16, Appl
559	117	3.7	1257	3	US-08-611-729A-8	Sequence 8, Appli	632	114	3.6	224	4	US-09-662-183A-16	Sequence 16, Appl
560	117	3.7	1257	4	US-09-195-524-8	Sequence 8, Appli	633	114	3.6	257	4	US-10-101-464A-743	Sequence 743, App
561	116.5	3.7	132	4	US-10-101-464A-572	Sequence 572, App	634	114	3.6	631	4	US-09-270-767-44123	Sequence 44123, A
562	116.5	3.7	286	4	US-09-270-767-37980	Sequence 37980, A	635	114	3.6	644	3	US-08-866-757-2	Sequence 2, Appli
563	116.5	3.7	296	4	US-09-270-767-53197	Sequence 53197, A	636	114	3.6	644	3	US-09-153-593-2	Sequence 2, Appli
564	116.5	3.7	943	3	US-08-476-515A-12	Sequence 12, Appl	637	114	3.6	875	3	US-09-150-460B-7	Sequence 7, Appli
565	116.5	3.7	944	3	US-08-652-877-12	Sequence 12, Appl	638	114	3.6	1063	1	US-08-093-453B-3	Sequence 3, Appli
566	116.5	3.7	1252	4	US-09-902-540-13967	Sequence 13967, A	639	114	3.6	1063	1	US-08-127-499A-8	Sequence 8, Appli
567	116.5	3.7	2887	3	US-08-462-467B-8	Sequence 8, Appli	640	114	3.6	1063	1	US-08-482-847-8	Sequence 8, Appli
568	116.5	3.7	4654	3	US-08-476-515A-84	Sequence 84, Appl	641	114	3.6	1065	2	US-08-400-159-8	Sequence 8, Appli
569	116.5	3.7	4655	3	US-08-652-877-84	Sequence 84, Appl	642	114	3.6	1290	3	US-09-150-460B-6	Sequence 6, Appli
570	116.5	3.7	4655	3	US-08-652-877-86	Sequence 86, Appl	643	114	3.6	3571	4	US-09-911-842A-2	Sequence 2, Appli
571	116.5	3.7	4655	3	US-08-652-877-88	Sequence 88, Appl	644	113.5	3.6	685	4	US-10-101-464A-918	Sequence 918, App
572	116.5	3.7	4655	3	US-08-652-877-90	Sequence 90, Appl	645	113.5	3.6	841	4	US-09-252-991A-26919	Sequence 26919, A
573	116	3.7	193	4	US-09-270-767-44942	Sequence 44942, A	646	113.5	3.6	1164	4	US-09-902-540-12627	Sequence 12627, A
574	116	3.7	264	4	US-09-252-991A-24670	Sequence 24670, A	647	113.5	3.6	1218	3	US-09-214-278-7	Sequence 7, Appli
575	116	3.7	1053	4	US-09-513-505-8	Sequence 8, Appli	648	113.5	3.6	1218	4	US-09-855-722-7	Sequence 7, Appli
576	116	3.7	1181	4	US-09-826-509-587	Sequence 587, App	649	113	3.6	175	4	US-10-101-464A-801	Sequence 801, App
577	116	3.7	1291	3	US-09-150-460B-10	Sequence 10, Appl	650	113	3.6	369	4	US-09-252-991A-25394	Sequence 25394, A
578	116	3.7	1291	3	US-09-220-641-5	Sequence 5, Appli	651	113	3.6	688	3	US-09-367-206-20	Sequence 20, Appl
579	116	3.7	2556	1	US-08-083-590A-20	Sequence 20, Appl	652	113	3.6	770	4	US-09-981-953A-2	Sequence 2, Appli
580	116	3.7	2556	3	US-08-532-384-20	Sequence 20, Appl	653	113	3.6	979	4	US-09-538-092-990	Sequence 990, App
581	115.5	3.7	138	3	US-09-191-647-4	Sequence 4, Appli	654	113	3.6	1247	4	US-09-501-171-6	Sequence 6, Appli
582	115.5	3.7	138	3	US-09-540-245A-4	Sequence 4, Appli	655	112.5	3.6	328	4	US-09-252-991A-17729	Sequence 17729, A
583	115.5	3.7	138	3	US-09-540-153-4	Sequence 4, Appli	656	112.5	3.6	677	1	US-08-188-582-13	Sequence 13, Appl
584	115.5	3.7	412	4	US-09-252-991A-24484	Sequence 24484, A	657	112.5	3.6	677	1	US-08-646-715-13	Sequence 13, Appl
585	115.5	3.7	728	3	US-09-252-991A-28169	Sequence 28169, A	658	112.5	3.6	677	4	US-09-538-092-1164	Sequence 1164, Ap
586	115.5	3.7	1093	3	US-08-845-860D-55	Sequence 55, Appl	659	112.5	3.6	694	4	US-09-949-016-8774	Sequence 8774, Ap
587	115.5	3.7	1093	5	PCT-US94-04496-55	Sequence 55, Appl	660	112.5	3.6	694	4	US-09-949-016-8493	Sequence 8493, Ap
588	115	3.7	305	4	US-09-325-932A-188	Sequence 188, App	661	112.5	3.6	711	4	US-09-949-016-8493	Sequence 8493, Ap
589	115	3.7	447	1	US-08-450-360-4	Sequence 4, Appli	662	112.5	3.6	1068	1	US-08-396-479B-12	Sequence 12, Appl
590	115	3.7	764	3	US-07-741-453A-59	Sequence 59, Appl	663	112.5	3.6	1068	1	US-08-818-823-12	Sequence 12, Appl
591	115	3.7	764	3	US-07-741-453A-61	Sequence 61, Appl	664	112.5	3.6	1078	4	US-09-949-016-9573	Sequence 9573, Ap
592	115	3.7	984	3	US-09-287-354-2	Sequence 2, Appli	665	112	3.6	230	4	US-09-252-991A-31737	Sequence 31737, A
593	115	3.7	1053	4	US-09-513-505-6	Sequence 6, Appli	666	112	3.6	241	3	US-08-341-018-54	Sequence 54, Appl
594	115	3.7	1093	4	US-09-252-991A-21827	Sequence 21827, A	667	112	3.6	241	3	US-08-470-335-195	Sequence 195, App
595	115	3.7	1189	3	US-09-387-354-4	Sequence 4, Appli	668	112	3.6	241	3	US-08-470-339-195	Sequence 195, App
596	115	3.7	1189	4	US-09-949-016-6931	Sequence 6931, Ap	669	112	3.6	241	4	US-08-467-602-389	Sequence 389, App
597	115	3.7	1219	3	US-08-982-046-5	Sequence 5, Appli	670	112	3.6	241	4	US-08-411-295F-47	Sequence 47, Appl
598	115	3.7	1219	4	US-09-566-047-5	Sequence 5, Appli	671	112	3.6	241	4	US-08-411-295F-94	Sequence 94, Appl
599	114.5	3.7	166	4	US-09-270-767-59438	Sequence 59438, A	672	112	3.6	297	2	US-08-580-545B-6	Sequence 6, Appli
600	114.5	3.7	587	4	US-09-949-016-8708	Sequence 8708, Ap	673	112	3.6	297	3	US-09-262-653A-6	Sequence 6, Appli
601	114.5	3.7	587	4	US-09-949-016-8709	Sequence 8709, Ap	674	112	3.6	383	1	US-08-597-545-2	Sequence 2, Appli
602	114.5	3.7	661	4	US-09-949-016-9121	Sequence 9121, Ap	675	112	3.6	383	1	US-08-457-135-2	Sequence 2, Appli
603	114.5	3.7	804	4	US-10-101-464A-890	Sequence 890, App	676	112	3.6	383	4	US-09-142-027A-12	Sequence 12, Appl
604	114.5	3.7	935	4	US-09-902-540-16200	Sequence 16200, A	677	112	3.6	479	4	US-09-252-991A-23144	Sequence 23144, A
605	114.5	3.7	1010	3	US-08-882-046-7	Sequence 7, Appli	678	112	3.6	513	2	US-08-480-229C-14	Sequence 14, Appl
606	114.5	3.7	1010	4	US-09-566-047-7	Sequence 7, Appli	679	112	3.6	513	2	US-08-659-235C-14	Sequence 14, Appl
607	114.5	3.7	1017	3	US-09-600-776-6	Sequence 6, Appli	680	112	3.6	720	4	US-09-252-991A-31915	Sequence 31915, A
608	114.5	3.7	1017	3	US-09-965-830-6	Sequence 6, Appli	681	112	3.6	750	3	US-09-165-239A-4	Sequence 4, Appli
609	114.5	3.7	1036	3	US-09-068-740A-6	Sequence 6, Appli	682	112	3.6	764	3	US-07-757-342D-5	Sequence 5, Appli
610	114.5	3.7	1067	4	US-09-579-536C-18	Sequence 18, Appl	683	112	3.6	764	4	US-09-461-657B-5	Sequence 5, Appli
611	114.5	3.7	1162	2	US-08-728-323A-2	Sequence 2, Appli	684	112	3.6	764	4	US-09-826-509-395	Sequence 395, App

685	112	3.6	764	4	US-09-826-509-399	Sequence 399, App	758	110.5	3.5	1384	3	US-08-976-255-11	Sequence 11, Appl
686	112	3.6	764	4	US-09-826-509-403	Sequence 403, App	759	110.5	3.5	1656	4	US-09-949-016-7247	Sequence 7247, Ap
687	112	3.6	764	4	US-09-826-509-407	Sequence 407, App	760	110.5	3.5	2476	2	US-08-276-967-2	Sequence 2, Appl
688	112	3.6	764	4	US-09-826-509-411	Sequence 411, App	761	110.5	3.5	3724	2	US-08-804-227C-10	Sequence 10, Appl
689	112	3.6	764	4	US-09-826-509-415	Sequence 415, App	762	110.5	3.5	3724	2	US-08-804-198-4	Sequence 4, Appl
690	112	3.6	764	4	US-09-826-509-419	Sequence 419, App	763	110.5	3.5	11877	3	US-09-105-537-6	Sequence 6, Appl
691	112	3.6	764	4	US-09-826-509-423	Sequence 423, App	764	110	3.5	195	4	US-09-858-646A-11	Sequence 11, Appl
692	112	3.6	902	1	US-08-396-479B-6	Sequence 6, Appl	765	110	3.5	195	4	US-10-274-978-12	Sequence 12, Appl
693	112	3.6	902	1	US-08-818-823-6	Sequence 6, Appl	766	110	3.5	195	4	US-10-697-263-12	Sequence 12, Appl
694	112	3.6	990	4	US-10-101-464A-814	Sequence 814, App	767	110	3.5	450	3	US-09-369-364A-19	Sequence 19, Appl
695	112	3.6	1833	3	US-08-479-722B-2	Sequence 2, Appl	768	110	3.5	626	4	US-09-345-473E-43	Sequence 43, Appl
696	112	3.6	1833	4	US-09-592-685-2	Sequence 2, Appl	769	110	3.5	633	4	US-09-248-796A-18023	Sequence 18023, A
697	112	3.6	1833	5	PCT-US95-02251-18	Sequence 18, Appl	770	110	3.5	739	3	US-09-035-648-24	Sequence 24, Appl
698	111.5	3.6	228	4	US-09-902-540-15349	Sequence 15349, A	771	110	3.5	739	3	US-09-001-951-24	Sequence 24, Appl
699	111.5	3.6	281	4	US-09-252-991A-23962	Sequence 23962, A	772	110	3.5	739	4	US-08-818-829-24	Sequence 24, Appl
700	111.5	3.6	281	4	US-10-101-464A-619	Sequence 619, App	773	110	3.5	746	4	US-09-548-797B-4	Sequence 4, Appl
701	111.5	3.6	320	4	US-09-252-991A-21056	Sequence 21056, A	774	110	3.5	2703	1	US-08-185-432-19	Sequence 19, Appl
702	111.5	3.6	417	4	US-09-949-016-11097	Sequence 11097, A	775	110	3.5	2703	4	US-08-899-232-4	Sequence 4, Appl
703	111.5	3.6	417	4	US-09-949-016-11098	Sequence 11098, A	776	110	3.5	2703	4	US-09-121-457-4	Sequence 4, Appl
704	111.5	3.6	445	4	US-09-252-991A-22388	Sequence 22388, A	777	109.5	3.5	297	4	US-09-252-991A-32590	Sequence 32590, A
705	111.5	3.6	766	4	US-09-902-540-10602	Sequence 10602, A	778	109.5	3.5	343	4	US-10-101-464A-892	Sequence 892, App
706	111.5	3.6	816	4	US-09-266-225D-12	Sequence 12, Appl	779	109.5	3.5	381	4	US-10-101-464A-660	Sequence 660, App
707	111.5	3.6	841	4	US-09-949-016-9797	Sequence 9797, Ap	780	109.5	3.5	400	4	US-10-101-464A-939	Sequence 939, App
708	111.5	3.6	1021	4	US-10-101-464A-954	Sequence 954, App	781	109.5	3.5	401	6	5252556-1	Patent No. 5252556
709	111.5	3.6	1298	2	US-08-690-473-2	Sequence 2, Appl	782	109.5	3.5	401	6	5252556-1	Patent No. 5252556
710	111.5	3.6	1298	3	US-09-259-821A-2	Sequence 2, Appl	783	109.5	3.5	456	3	US-08-470-335-246	Sequence 246, App
711	111.5	3.6	1298	3	US-08-843-659-2	Sequence 2, Appl	784	109.5	3.5	456	4	US-08-467-602-303	Sequence 303, App
712	111.5	3.6	1298	4	US-09-825-288A-2	Sequence 2, Appl	785	109.5	3.5	456	4	US-08-411-295F-229	Sequence 229, App
713	111	3.5	237	4	US-09-252-991A-21250	Sequence 21250, A	786	109.5	3.5	490	4	US-08-467-602-345	Sequence 345, App
714	111	3.5	267	3	US-08-818-112-142	Sequence 142, App	787	109.5	3.5	490	4	US-08-411-295F-271	Sequence 271, App
715	111	3.5	267	3	US-08-818-111-137	Sequence 137, App	788	109.5	3.5	612	2	US-08-359-705B-8	Sequence 8, Appl
716	111	3.5	267	3	US-09-056-556-142	Sequence 142, App	789	109.5	3.5	612	2	US-08-286-846A-8	Sequence 8, Appl
717	111	3.5	267	4	US-09-072-596-137	Sequence 137, App	790	109.5	3.5	612	2	US-08-457-880A-8	Sequence 8, Appl
718	111	3.5	267	4	US-09-072-967-142	Sequence 142, App	791	109.5	3.5	612	3	US-08-444-622A-8	Sequence 8, Appl
719	111	3.5	322	4	US-09-252-991A-29259	Sequence 29259, A	792	109.5	3.5	612	3	US-08-942-562-8	Sequence 8, Appl
720	111	3.5	333	4	US-09-252-991A-19956	Sequence 19956, A	793	109.5	3.5	612	3	US-09-156-923-8	Sequence 8, Appl
721	111	3.5	452	4	US-09-949-016-7289	Sequence 7289, Ap	794	109.5	3.5	632	4	US-09-252-991A-25544	Sequence 25544, A
722	111	3.5	492	2	US-08-644-271-32	Sequence 32, Appl	795	109.5	3.5	690	3	US-09-228-986-69	Sequence 69, Appl
723	111	3.5	492	4	US-09-077-955-36	Sequence 36, Appl	796	109.5	3.5	690	4	US-10-101-464A-69	Sequence 69, Appl
724	111	3.5	595	4	US-09-949-016-7205	Sequence 7205, Ap	797	109.5	3.5	693	4	US-09-949-016-7806	Sequence 7806, Ap
725	111	3.5	699	3	US-07-757-342D-2	Sequence 2, Appl	798	109.5	3.5	697	4	US-10-101-464A-940	Sequence 940, App
726	111	3.5	699	4	US-09-461-657B-2	Sequence 2, Appl	799	109.5	3.5	784	3	US-09-004-838-12	Sequence 12, Appl
727	111	3.5	1050	3	US-09-428-711A-16	Sequence 16, Appl	800	109.5	3.5	798	3	US-09-150-460B-8	Sequence 8, Appl
728	111	3.5	1109	4	US-09-943-016-10771	Sequence 10771, A	801	109.5	3.5	839	2	US-08-359-705B-6	Sequence 6, Appl
729	111	3.5	1203	4	US-09-949-016-6615	Sequence 6615, Ap	802	109.5	3.5	839	2	US-08-286-846A-6	Sequence 6, Appl
730	111	3.5	1318	4	US-10-237-551-197	Sequence 197, App	803	109.5	3.5	839	2	US-08-457-880A-6	Sequence 6, Appl
731	111	3.5	1358	1	US-08-404-665-4	Sequence 4, Appl	804	109.5	3.5	839	3	US-08-444-622A-6	Sequence 6, Appl
732	111	3.5	1358	1	US-08-404-671-4	Sequence 4, Appl	805	109.5	3.5	839	3	US-08-942-562-6	Sequence 6, Appl
733	111	3.5	1358	1	US-08-404-781-4	Sequence 4, Appl	806	109.5	3.5	839	3	US-09-156-923-6	Sequence 6, Appl
734	111	3.5	1540	4	US-09-949-016-11382	Sequence 11382, A	807	109.5	3.5	904	4	US-09-252-991A-25286	Sequence 25286, A
735	111	3.5	1540	4	US-09-949-016-11383	Sequence 11383, A	808	109.5	3.5	1235	4	US-09-949-016-8455	Sequence 8455, Ap
736	111	3.5	1650	4	US-09-252-991A-21798	Sequence 21798, A	809	109.5	3.5	1235	4	US-09-949-016-8456	Sequence 8456, Ap
737	111	3.5	1719	2	US-08-459-568-4	Sequence 4, Appl	810	109	3.5	163	4	US-09-252-991A-28374	Sequence 28374, A
738	111	3.5	1719	2	US-08-399-411-4	Sequence 4, Appl	811	109	3.5	221	2	US-08-480-229C-29	Sequence 29, Appl
739	111	3.5	1719	3	US-08-516-859A-4	Sequence 4, Appl	812	109	3.5	221	2	US-08-659-235C-29	Sequence 29, Appl
740	111	3.5	1719	3	US-09-586-472-4	Sequence 4, Appl	813	109	3.5	416	3	US-08-978-289-12	Sequence 12, Appl
741	111	3.5	1719	4	US-09-528-706-4	Sequence 4, Appl	814	109	3.5	416	4	US-09-601-478-1	Sequence 1, Appl
742	111	3.5	2254	4	US-09-949-016-9270	Sequence 9270, Ap	815	109	3.5	416	4	US-09-601-478A-4	Sequence 4, Appl
743	111	3.5	2442	3	US-09-514-247A-10	Sequence 10, Appl	816	109	3.5	433	4	US-09-252-991A-29241	Sequence 29241, A
744	111	3.5	2442	4	US-09-538-092-1370	Sequence 1370, Ap	817	109	3.5	437	1	US-08-136-119-2	Sequence 2, Appl
745	111	3.5	2523	1	US-08-185-432-18	Sequence 18, Appl	818	109	3.5	437	2	US-08-481-814A-7	Sequence 7, Appl
746	111	3.5	2523	4	US-08-899-232-3	Sequence 3, Appl	819	109	3.5	439	4	US-09-252-991A-32620	Sequence 32620, A
747	111	3.5	2523	4	US-09-121-457-3	Sequence 3, Appl	820	109	3.5	480	2	US-08-480-229C-10	Sequence 10, Appl
748	110.5	3.5	273	4	US-09-252-991A-30433	Sequence 30433, A	821	109	3.5	507	4	US-09-599-235C-10	Sequence 10, Appl
749	110.5	3.5	298	4	US-09-248-796A-26762	Sequence 26762, A	822	109	3.5	510	4	US-09-259-287A-24	Sequence 24, Appl
750	110.5	3.5	565	4	US-08-937-067-8	Sequence 8, Appl	823	109	3.5	552	4	US-09-252-991A-25076	Sequence 25076, A
751	110.5	3.5	708	4	US-09-818-780-76	Sequence 76, Appl	824	109	3.5	552	4	US-09-252-991A-23036	Sequence 23036, A
752	110.5	3.5	728	4	US-09-252-991A-31891	Sequence 31891, A	825	109	3.5	560	4	US-09-252-991A-25999	Sequence 25999, A
753	110.5	3.5	815	4	US-09-538-092-1300	Sequence 1300, Ap	826	109	3.5	762	1	US-08-642-255-114	Sequence 114, App
754	110.5	3.5	1346	3	US-09-320-878-4	Sequence 4, Appl	827	109	3.5	762	1	US-08-397-633A-26	Sequence 26, Appl
755	110.5	3.5	1346	3	US-09-105-537-37	Sequence 37, Appl	828	109	3.5	764	4	US-09-186-350A-53	Sequence 53, Appl
756	110.5	3.5	1346	4	US-09-141-908-5	Sequence 5, Appl	829	109	3.5	828	4	US-10-101-464A-934	Sequence 934, App
757	110.5	3.5	1346	4	US-09-657-440-4	Sequence 4, Appl	830	109	3.5	833	1	US-08-264-534-6	Sequence 6, Appl

831	109	3.5	833	1	US-08-083-590A-2	Sequence 2, Appli	904	107.5	3.4	459	3	US-08-470-335-239	Sequence 239, App
832	109	3.5	833	1	US-08-465-500-6	Sequence 6, Appli	905	107.5	3.4	459	4	US-08-467-602-299	Sequence 225, App
833	109	3.5	833	1	US-08-346-126-6	Sequence 6, Appli	906	107.5	3.4	459	4	US-08-411-295F-225	Sequence 229, App
834	109	3.5	833	2	US-08-346-128-6	Sequence 6, Appli	907	107.5	3.4	493	4	US-08-467-602-341	Sequence 341, App
835	109	3.5	833	3	US-08-532-384-2	Sequence 2, Appli	908	107.5	3.4	493	4	US-08-411-295F-267	Sequence 267, App
836	109	3.5	833	3	US-08-893-828-6	Sequence 6, Appli	909	107.5	3.4	506	4	US-09-949-016-11282	Sequence 11282, A
837	109	3.5	850	1	US-08-286-305A-7	Sequence 7, Appli	910	107.5	3.4	520	3	US-09-068-740A-3	Sequence 3, Appli
838	109	3.5	850	2	US-08-441-104A-7	Sequence 7, Appli	911	107.5	3.4	568	4	US-09-252-991A-19968	Sequence 19968, A
839	109	3.5	850	3	US-08-440-816A-7	Sequence 7, Appli	912	107.5	3.4	655	1	US-07-736-178C-2	Sequence 2, Appli
840	109	3.5	850	3	US-09-417-381A-7	Sequence 7, Appli	913	107.5	3.4	660	4	US-10-101-464A-808	Sequence 808, App
841	109	3.5	860	4	US-09-252-991A-28607	Sequence 28607, A	914	107.5	3.4	691	4	US-09-252-991A-31413	Sequence 31413, A
842	109	3.5	1336	2	US-08-231-193A-58	Sequence 58, Appl	915	107.5	3.4	723	4	US-09-641-612-6	Sequence 6, Appli
843	109	3.5	1336	2	US-08-486-273A-58	Sequence 58, Appl	916	107.5	3.4	787	4	US-09-252-991A-19991	Sequence 19991, A
844	109	3.5	1336	3	US-08-940-086A-58	Sequence 58, Appl	917	107.5	3.4	832	3	US-08-981-392-6	Sequence 6, Appli
845	109	3.5	1336	3	US-08-940-086A-58	Sequence 58, Appl	918	107.5	3.4	832	4	US-09-908-322-6	Sequence 9, Appli
846	109	3.5	1336	3	US-08-935-105A-58	Sequence 58, Appl	919	107.5	3.4	984	2	US-08-673-789-9	Sequence 6695, Ap
847	109	3.5	1336	4	US-09-648-797-58	Sequence 58, Appl	920	107.5	3.4	998	4	US-09-949-016-6695	Sequence 13, Appl
848	109	3.5	1336	4	US-09-386-123-58	Sequence 58, Appl	921	107.5	3.4	1088	2	US-09-233-857-13	Sequence 7, Appli
849	109	3.5	1336	4	US-10-038-937-58	Sequence 58, Appl	922	107.5	3.4	1135	2	US-08-574-959A-7	Sequence 7, Appli
850	108.5	3.5	74	4	US-09-270-767-32762	Sequence 32762, A	923	107.5	3.4	1135	3	US-09-357-014-7	Sequence 8412, Ap
851	108.5	3.5	74	4	US-09-270-767-47979	Sequence 47979, A	924	107.5	3.4	1327	4	US-09-949-016-8412	Sequence 3, Appli
852	108.5	3.5	269	4	US-09-302-540-16596	Sequence 16596, A	925	107.5	3.4	131	2	US-08-650-598-3	Sequence 623, App
853	108.5	3.5	288	4	US-09-252-991A-32807	Sequence 32807, A	926	107	3.4	232	4	US-09-149-476-623	Sequence 27676, A
854	108.5	3.5	281	4	US-09-510-031A-5	Sequence 5, Appli	927	107	3.4	288	4	US-09-252-991A-27676	Sequence 6051, Ap
855	108.5	3.5	404	4	US-09-550-115-11	Sequence 11, Appl	928	107	3.4	354	4	US-09-949-016-6051	Sequence 8148, Ap
856	108.5	3.5	542	4	US-09-252-991A-21862	Sequence 21862, A	929	107	3.4	358	4	US-09-949-016-8148	Sequence 18991, A
857	108.5	3.5	548	2	US-08-468-576B-19	Sequence 19, Appl	930	107	3.4	360	4	US-09-248-796A-18991	Sequence 29670, A
858	108.5	3.5	548	2	US-08-468-576B-19	Sequence 19, Appl	931	107	3.4	369	4	US-09-252-991A-29670	Sequence 23619, A
859	108.5	3.5	548	3	US-08-468-577B-19	Sequence 19, Appl	932	107	3.4	492	4	US-09-252-991A-23619	Sequence 2, Appli
860	108.5	3.5	702	3	US-09-068-740A-4	Sequence 4, Appli	933	107	3.4	500	4	US-09-423-753-2	Sequence 913, App
861	108.5	3.5	723	3	US-09-068-740A-9	Sequence 9, Appli	934	107	3.4	541	4	US-10-101-464A-913	Sequence 19071, A
862	108.5	3.5	723	4	US-09-423-753-27	Sequence 27, Appl	935	107	3.4	759	4	US-09-252-991A-19071	Sequence 29395, A
863	108.5	3.5	825	1	US-07-912-952-2	Sequence 2, Appli	936	107	3.4	793	3	US-09-588-256-10	Sequence 10, Appl
864	108.5	3.5	827	4	US-09-248-796A-17307	Sequence 17307, A	937	107	3.4	806	3	US-08-945-983-2	Sequence 2, Appli
865	108.5	3.5	904	4	US-09-252-991A-23202	Sequence 23202, A	938	107	3.4	1241	4	US-08-714-741-34	Sequence 34, Appli
866	108.5	3.5	925	4	US-09-252-991A-24254	Sequence 24254, A	939	107	3.4	1315	3	US-08-899-595-3	Sequence 3, Appli
867	108.5	3.5	1255	4	US-09-513-783A-152	Sequence 152, App	940	107	3.4	157	3	US-08-981-332-68	Sequence 68, Appl
868	108.5	3.5	1125	4	US-09-430-656-152	Sequence 152, App	941	106.5	3.4	157	3	US-09-908-322-68	Sequence 68, Appl
869	108.5	3.5	1184	4	US-09-266-225D-18	Sequence 18, Appl	942	106.5	3.4	176	4	US-09-270-767-32581	Sequence 32581, A
870	108.5	3.5	1527	4	US-09-695-795A-4	Sequence 4, Appli	943	106.5	3.4	176	4	US-09-270-767-47798	Sequence 47798, A
871	108.5	3.5	1610	4	US-09-513-783A-22	Sequence 22, Appl	944	106.5	3.4	247	4	US-09-252-991A-23672	Sequence 23672, A
872	108.5	3.5	1610	4	US-09-430-656-22	Sequence 22, Appl	945	106.5	3.4	401	4	US-09-248-796A-26759	Sequence 26759, A
873	108	3.4	152	3	US-09-214-909-22	Sequence 22, Appl	946	106.5	3.4	420	4	US-09-902-540-13993	Sequence 13993, A
874	108	3.4	180	3	US-09-133-341-12	Sequence 12, Appl	947	106.5	3.4	423	3	US-08-702-665A-5	Sequence 5, Appli
875	108	3.4	180	4	US-09-739-852-12	Sequence 12, Appl	948	106.5	3.4	464	2	US-08-836-854-19	Sequence 19, Appl
876	108	3.4	419	4	US-10-237-551-198	Sequence 198, App	949	106.5	3.4	464	2	US-08-836-854-19	Sequence 7, Appli
877	108	3.4	590	2	US-08-785-310A-5	Sequence 5, Appli	950	106.5	3.4	464	4	US-09-366-009-7	Sequence 7, Appli
878	108	3.4	618	4	US-09-252-991A-23373	Sequence 23373, A	951	106.5	3.4	464	4	US-08-809-156B-7	Sequence 8, Appli
879	108	3.4	670	4	US-09-252-991A-33445	Sequence 33445, A	952	106.5	3.4	489	4	US-08-809-156B-8	Sequence 8, Appli
880	108	3.4	703	3	US-09-367-206-5	Sequence 5, Appli	953	106.5	3.4	489	4	US-08-922-865-2	Sequence 2, Appli
881	108	3.4	705	4	US-09-302-540-11260	Sequence 11260, A	954	106.5	3.4	575	3	US-08-922-865-2	Sequence 2, Appli
882	108	3.4	820	4	US-09-252-991A-23346	Sequence 23346, A	955	106.5	3.4	575	4	US-09-510-949-2	Sequence 2, Appli
883	108	3.4	1015	1	US-08-537-210A-1	Sequence 1, Appli	956	106.5	3.4	642	3	US-08-872-855-10	Sequence 10, Appl
884	108	3.4	1015	3	US-09-113-825-1	Sequence 1, Appli	957	106.5	3.4	974	4	US-10-101-464A-921	Sequence 921, App
885	108	3.4	1189	3	US-09-287-354-3	Sequence 3, Appli	958	106.5	3.4	1003	1	US-08-571-758-4	Sequence 4, Appli
886	108	3.4	1320	4	US-10-164-595-58	Sequence 58, Appl	959	106.5	3.4	1003	1	US-08-909-983-4	Sequence 4, Appli
887	108	3.4	1404	4	US-10-164-595-78	Sequence 78, Appl	960	106.5	3.4	1003	1	US-08-909-983-4	Sequence 4, Appli
888	108	3.4	1411	4	US-09-949-016-10827	Sequence 10827, A	961	106.5	3.4	1075	5	PCF-US94-07297-41	Sequence 41, Appl
889	108	3.4	1618	3	US-08-462-467B-4	Sequence 4, Appli	962	106.5	3.4	1185	3	US-09-041-886-23	Sequence 23, Appl
890	108	3.4	1711	2	US-08-342-930-2	Sequence 2, Appli	963	106.5	3.4	1185	4	US-09-538-092-1209	Sequence 1209, Ap
891	108	3.4	2887	3	US-08-462-467B-2	Sequence 2, Appli	964	106.5	3.4	1476	4	US-09-252-991A-29427	Sequence 29427, A
892	108	3.4	4551	3	US-09-320-878-1	Sequence 1, Appli	965	106.5	3.4	1507	4	US-09-914-259-37	Sequence 37, Appl
893	108	3.4	4551	4	US-09-141-908-2	Sequence 2, Appli	966	106.5	3.4	2090	4	US-09-538-092-1081	Sequence 1081, Ap
894	108	3.4	4551	4	US-09-657-440-1	Sequence 1, Appli	967	106.5	3.4	2120	4	US-09-949-016-9768	Sequence 9768, Ap
895	108	3.4	4613	3	US-09-105-537-31	Sequence 31, Appl	968	106.5	3.4	3594	4	US-09-911-842A-4	Sequence 4, Appli
896	107.5	3.4	134	3	US-09-191-647-12	Sequence 12, Appl	969	106	3.4	115	4	US-09-621-976-4266	Sequence 4266, Ap
897	107.5	3.4	134	3	US-09-540-245A-12	Sequence 12, Appl	970	106	3.4	173	4	US-10-101-464A-741	Sequence 741, App
898	107.5	3.4	134	3	US-09-540-153-12	Sequence 12, Appl	971	106	3.4	254	4	US-09-252-991A-21433	Sequence 21433, A
899	107.5	3.4	260	4	US-09-270-767-46622	Sequence 46622, A	972	106	3.4	370	4	US-09-252-991A-18438	Sequence 18438, A
900	107.5	3.4	305	4	US-09-252-991A-22096	Sequence 22096, A	973	106	3.4	421	4	US-09-902-540-14807	Sequence 14807, A
901	107.5	3.4	328	4	US-09-252-991A-21969	Sequence 21969, A	974	106	3.4	448	4	US-09-949-016-10130	Sequence 10130, A
902	107.5	3.4	374	4	US-09-252-991A-28527	Sequence 28527, A	975	106	3.4	503	4	US-09-248-796A-18992	Sequence 18992, A
903	107.5	3.4	419	4	US-09-630-155-2	Sequence 2, Appli	976	106	3.4	666	4	US-09-050-739-70	Sequence 70, Appl

977	106	3.4	732	4	US-09-134-000C-6359	Sequence 6359, Ap	1050	105.5	3.4	574	3	US-09-062-440-2	Sequence 2, Appli
978	106	3.4	762	1	US-08-642-235-120	Sequence 120, App	1051	105.5	3.4	574	3	US-09-712-495-2	Sequence 2, Appli
979	106	3.4	762	1	US-08-397-633A-31	Sequence 31, Appl	1052	105.5	3.4	695	4	US-09-538-092-1152	Sequence 1152, Ap
980	106	3.4	763	4	US-09-949-016-10382	Sequence 10382, A	1053	105.5	3.4	695	4	US-09-949-016-6102	Sequence 6102, Ap
981	106	3.4	830	3	US-08-873-855-11	Sequence 11, Appl	1054	105.5	3.4	713	4	US-09-949-016-11425	Sequence 11425, A
982	106	3.4	1214	2	US-08-231-193A-54	Sequence 54, Appl	1055	105.5	3.4	749	4	US-09-949-016-8645	Sequence 8645, Ap
983	106	3.4	1214	2	US-08-486-273A-54	Sequence 54, Appl	1056	105.5	3.4	749	4	US-09-949-016-8646	Sequence 8646, Ap
984	106	3.4	1214	2	US-08-480-474-54	Sequence 54, Appl	1057	105.5	3.4	749	4	US-09-949-016-8647	Sequence 8647, Ap
985	106	3.4	1214	3	US-08-940-086A-54	Sequence 54, Appl	1058	105.5	3.4	749	4	US-09-949-016-8648	Sequence 8648, Ap
986	106	3.4	1214	3	US-08-940-035A-54	Sequence 54, Appl	1059	105.5	3.4	766	4	US-09-949-016-11355	Sequence 11355, A
987	106	3.4	1214	3	US-08-935-105A-54	Sequence 54, Appl	1060	105.5	3.4	766	4	US-09-949-016-11356	Sequence 11356, A
988	106	3.4	1214	4	US-09-648-797-54	Sequence 54, Appl	1061	105.5	3.4	766	4	US-09-949-016-11357	Sequence 11357, A
989	106	3.4	1214	4	US-09-386-123-54	Sequence 54, Appl	1062	105.5	3.4	766	4	US-09-949-016-11358	Sequence 11358, A
990	106	3.4	1214	4	US-10-038-937-54	Sequence 54, Appl	1063	105.5	3.4	1135	2	US-08-469-537A-97	Sequence 97, Appl
991	106	3.4	1219	2	US-08-231-193A-50	Sequence 50, Appl	1064	105.5	3.4	1388	4	US-09-252-991A-20337	Sequence 20337, A
992	106	3.4	1219	2	US-08-486-273A-50	Sequence 50, Appl	1065	105.5	3.4	2220	4	US-09-335-011-1	Sequence 1, Appli
993	106	3.4	1219	3	US-08-480-474-50	Sequence 50, Appl	1066	105.5	3.4	2410	4	US-09-270-767-44775	Sequence 44775, A
994	106	3.4	1219	3	US-08-940-086A-50	Sequence 50, Appl	1067	105.5	3.4	3033	1	US-07-925-695-5	Sequence 5, Appli
995	106	3.4	1219	3	US-08-940-035A-50	Sequence 50, Appl	1068	105	3.3	196	3	US-08-981-392-35	Sequence 35, Appl
996	106	3.4	1219	3	US-08-935-105A-50	Sequence 50, Appl	1069	105	3.3	196	4	US-09-908-322-35	Sequence 35, Appl
997	106	3.4	1219	4	US-09-648-797-50	Sequence 50, Appl	1070	105	3.3	254	3	US-09-199-637A-325	Sequence 325, App
998	106	3.4	1219	4	US-09-386-123-50	Sequence 50, Appl	1071	105	3.3	422	3	US-09-151-102-2	Sequence 2, Appli
999	106	3.4	1219	4	US-10-038-937-50	Sequence 50, Appl	1072	105	3.3	422	3	US-08-929-846-2	Sequence 2, Appli
1000	106	3.4	1231	2	US-08-231-193A-48	Sequence 48, Appl	1073	105	3.3	422	4	US-08-663-584-2	Sequence 2, Appli
1001	106	3.4	1231	2	US-08-486-273A-48	Sequence 48, Appl	1074	105	3.3	424	4	US-09-949-016-7241	Sequence 7241, Ap
1002	106	3.4	1231	3	US-08-480-474-48	Sequence 48, Appl	1075	105	3.3	435	4	US-09-252-991A-24702	Sequence 24702, A
1003	106	3.4	1231	3	US-08-940-086A-48	Sequence 48, Appl	1076	105	3.3	469	4	US-09-252-991A-25438	Sequence 25438, A
1004	106	3.4	1231	3	US-08-940-035A-48	Sequence 48, Appl	1077	105	3.3	476	4	US-09-252-991A-21580	Sequence 21580, A
1005	106	3.4	1231	3	US-08-935-105A-48	Sequence 48, Appl	1078	105	3.3	511	1	US-08-220-151-17	Sequence 17, Appl
1006	106	3.4	1231	4	US-09-648-797-48	Sequence 48, Appl	1079	105	3.3	511	1	US-08-413-118-17	Sequence 17, Appl
1007	106	3.4	1231	4	US-09-386-123-48	Sequence 48, Appl	1080	105	3.3	511	3	US-08-473-446-17	Sequence 17, Appl
1008	106	3.4	1231	4	US-10-038-937-48	Sequence 48, Appl	1081	105	3.3	545	4	US-09-902-540-15915	Sequence 15915, A
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1010	106	3.4	1236	2	US-08-486-273A-6	Sequence 6, Appli	1083	105	3.3	726	4	US-09-252-991A-20675	Sequence 20675, A
1011	106	3.4	1236	3	US-08-480-474-6	Sequence 6, Appli	1084	105	3.3	811	4	US-09-252-991A-28570	Sequence 28570, A
1012	106	3.4	1236	3	US-08-940-086A-6	Sequence 6, Appli	1085	105	3.3	847	4	US-09-949-016-6222	Sequence 6222, Ap
1013	106	3.4	1236	3	US-08-940-035A-6	Sequence 6, Appli	1086	105	3.3	885	4	US-09-949-016-7789	Sequence 7789, Ap
1014	106	3.4	1236	3	US-08-935-105A-6	Sequence 6, Appli	1087	105	3.3	895	1	US-08-123-161A-8	Sequence 8, Appli
1015	106	3.4	1236	4	US-09-648-797-6	Sequence 6, Appli	1088	105	3.3	895	1	US-08-483-278-8	Sequence 8, Appli
1016	106	3.4	1236	4	US-09-386-123-6	Sequence 6, Appli	1089	105	3.3	895	1	US-09-949-016-6490	Sequence 6490, Ap
1017	106	3.4	1236	4	US-10-038-937-6	Sequence 6, Appli	1090	105	3.3	976	2	US-08-449-645A-18	Sequence 18, Appl
1018	106	3.4	1239	2	US-08-231-193A-52	Sequence 52, Appl	1091	105	3.3	976	2	US-08-702-367A-18	Sequence 18, Appl
1019	106	3.4	1239	2	US-08-486-273A-52	Sequence 52, Appl	1092	105	3.3	976	4	US-09-949-016-6499	Sequence 6499, Ap
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1021	106	3.4	1239	3	US-08-940-086A-52	Sequence 52, Appl	1094	105	3.3	1013	4	US-09-949-016-7991	Sequence 18, Appl
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1023	106	3.4	1239	3	US-08-935-105A-52	Sequence 52, Appl	1096	105	3.3	1587	4	US-09-949-016-11062	Sequence 11062, A
1024	106	3.4	1239	4	US-09-648-797-52	Sequence 52, Appl	1097	105	3.3	2409	6	5180808-2	Patent No. 5180808
1025	106	3.4	1239	4	US-09-386-123-52	Sequence 52, Appl	1098	105	3.3	2409	6	5180808-2	Patent No. 5180808
1026	106	3.4	1239	4	US-10-038-937-52	Sequence 52, Appl	1099	105	3.3	3730	3	US-09-949-016-9908	Sequence 9908, Ap
1027	106	3.4	1244	2	US-08-231-193A-46	Sequence 46, Appl	1100	105	3.3	3782	3	US-09-105-537-4	Sequence 4, Appli
1028	106	3.4	1244	2	US-08-486-273A-46	Sequence 46, Appl	1101	104.5	3.3	96	1	US-08-442-063A-33	Sequence 33, Appl
1029	106	3.4	1244	3	US-08-480-474-46	Sequence 46, Appl	1102	104.5	3.3	157	3	US-08-872-855-6	Sequence 6, Appli
1030	106	3.4	1244	3	US-08-940-086A-46	Sequence 46, Appl	1103	104.5	3.3	269	4	US-09-252-991A-25341	Sequence 25341, A
1031	106	3.4	1244	3	US-08-940-035A-46	Sequence 46, Appl	1104	104.5	3.3	295	4	US-09-252-991A-23612	Sequence 23612, A
1032	106	3.4	1244	3	US-08-935-105A-46	Sequence 46, Appl	1105	104.5	3.3	386	4	US-09-252-991A-28178	Sequence 28178, A
1033	106	3.4	1244	4	US-09-648-797-46	Sequence 46, Appl	1106	104.5	3.3	483	4	US-09-904-615-154	Sequence 154, App
1034	106	3.4	1244	4	US-09-386-123-46	Sequence 46, Appl	1107	104.5	3.3	503	3	US-09-599-287A-2	Sequence 2, Appli
1035	106	3.4	1244	4	US-10-038-937-46	Sequence 46, Appl	1108	104.5	3.3	635	3	US-08-470-335-247	Sequence 247, App
1036	106	3.4	1958	1	US-07-945-283-2	Sequence 2, Appli	1109	104.5	3.3	635	4	US-08-467-602-302	Sequence 302, App
1037	106	3.4	2185	4	US-09-854-856-36	Sequence 36, Appl	1110	104.5	3.3	635	4	US-08-411-295F-228	Sequence 228, App
1038	106	3.4	2245	4	US-09-854-856-4	Sequence 4, Appli	1111	104.5	3.3	644	3	US-08-470-335-250	Sequence 250, App
1039	106	3.4	2322	4	US-09-854-856-34	Sequence 34, Appl	1112	104.5	3.3	644	4	US-08-467-602-311	Sequence 311, App
1040	106	3.4	2382	4	US-09-854-856-2	Sequence 2, Appli	1113	104.5	3.3	644	4	US-08-411-295F-237	Sequence 237, App
1041	106	3.4	3647	4	US-09-949-016-10932	Sequence 10932, A	1114	104.5	3.3	669	4	US-08-467-602-344	Sequence 344, App
1042	105.5	3.4	175	4	US-09-325-932A-186	Sequence 186, App	1115	104.5	3.3	669	4	US-08-411-295F-270	Sequence 270, App
1043	105.5	3.4	301	4	US-09-252-991A-17405	Sequence 17405, A	1116	104.5	3.3	678	4	US-08-467-602-353	Sequence 353, App
1044	105.5	3.4	457	4	US-09-774-639-108	Sequence 108, App	1117	104.5	3.3	678	4	US-08-411-295F-279	Sequence 279, App
1045	105.5	3.4	486	4	US-09-538-092-1269	Sequence 1269, Ap	1118	104.5	3.3	697	4	US-09-949-016-9660	Sequence 9660, Ap
1046	105.5	3.4	486	4	US-09-949-016-6151	Sequence 6151, Ap	1119	104.5	3.3	705	4	US-10-006-011A-3	Sequence 3, Appli
1047	105.5	3.4	510	3	US-08-246-489-2	Sequence 2, Appli	1120	104.5	3.3	707	3	US-08-704-711A-19	Sequence 19, Appl
1048	105.5	3.4	559	4	US-10-116-370-2	Sequence 2, Appli	1121	104.5	3.3	707	3	US-09-521-220-19	Sequence 19, Appl
1049	105.5	3.4	567	4	US-09-949-016-10952	Sequence 10952, A	1122	104.5	3.3	707	3	US-09-391-104-20	Sequence 20, Appl



1123	104.5	3.3	707	4	US-09-949-016-6575	Sequence 6575, Ap	1196	103.5	3.3	647	4	US-08-411-295F-234	Sequence 234, App
1124	104.5	3.3	708	3	US-08-448-489-16	Sequence 16, Appl	1197	103.5	3.3	658	4	US-09-328-599A-2	Sequence 2, Appl
1125	104.5	3.3	708	4	US-09-689-730-16	Sequence 16, Appl	1198	103.5	3.3	658	4	US-08-467-602-305	Sequence 305, Appl
1126	104.5	3.3	713	4	US-09-949-016-10629	Sequence 10629, A	1199	103.5	3.3	658	4	US-08-411-295F-231	Sequence 231, App
1127	104.5	3.3	772	4	US-09-252-991A-30446	Sequence 30446, A	1200	103.5	3.3	667	4	US-08-467-602-314	Sequence 314, App
1128	104.5	3.3	852	3	US-08-470-335-248	Sequence 248, App	1201	103.5	3.3	667	4	US-08-411-295F-240	Sequence 240, App
1129	104.5	3.3	852	4	US-08-467-602-300	Sequence 300, App	1202	103.5	3.3	672	4	US-08-467-602-339	Sequence 339, App
1130	104.5	3.3	852	4	US-08-411-295F-226	Sequence 226, App	1203	103.5	3.3	672	4	US-08-411-295F-265	Sequence 265, App
1131	104.5	3.3	861	3	US-08-470-335-251	Sequence 251, App	1204	103.5	3.3	681	4	US-08-467-602-350	Sequence 350, App
1132	104.5	3.3	861	4	US-08-467-602-312	Sequence 312, App	1205	103.5	3.3	681	4	US-08-411-295F-276	Sequence 276, App
1133	104.5	3.3	861	4	US-08-411-295F-238	Sequence 238, App	1206	103.5	3.3	692	4	US-08-467-602-347	Sequence 347, App
1134	104.5	3.3	886	4	US-08-467-602-342	Sequence 342, App	1207	103.5	3.3	692	4	US-08-411-295F-273	Sequence 273, App
1135	104.5	3.3	886	4	US-08-411-295F-268	Sequence 268, App	1208	103.5	3.3	692	4	US-10-101-464A-897	Sequence 897, App
1136	104.5	3.3	895	4	US-08-467-602-354	Sequence 354, App	1209	103.5	3.3	701	4	US-08-467-602-356	Sequence 356, App
1137	104.5	3.3	895	4	US-08-411-295F-280	Sequence 280, App	1210	103.5	3.3	701	4	US-08-411-295F-282	Sequence 282, App
1138	104.5	3.3	899	3	US-08-470-335-249	Sequence 249, App	1211	103.5	3.3	836	4	US-09-252-991A-26065	Sequence 26065, A
1139	104.5	3.3	899	4	US-08-467-602-301	Sequence 301, App	1212	103.5	3.3	836	4	US-09-252-991A-31525	Sequence 31525, A
1140	104.5	3.3	899	4	US-08-411-295F-227	Sequence 227, App	1213	103.5	3.3	855	3	US-08-470-335-241	Sequence 241, App
1141	104.5	3.3	908	3	US-08-470-335-252	Sequence 252, App	1214	103.5	3.3	855	4	US-08-467-602-298	Sequence 298, App
1142	104.5	3.3	908	4	US-08-467-602-313	Sequence 313, App	1215	103.5	3.3	855	4	US-08-411-295F-224	Sequence 224, App
1143	104.5	3.3	908	4	US-08-411-295F-239	Sequence 239, App	1216	103.5	3.3	864	3	US-08-470-335-244	Sequence 244, App
1144	104.5	3.3	908	5	PCT-US95-03747-3	Sequence 3, Appl	1217	103.5	3.3	864	4	US-08-467-602-309	Sequence 309, App
1145	104.5	3.3	933	4	US-08-467-602-343	Sequence 343, App	1218	103.5	3.3	864	4	US-08-411-295F-235	Sequence 235, App
1146	104.5	3.3	933	4	US-08-411-295F-269	Sequence 269, App	1219	103.5	3.3	875	4	US-08-467-602-306	Sequence 306, App
1147	104.5	3.3	942	4	US-08-467-602-355	Sequence 355, App	1220	103.5	3.3	875	4	US-08-411-295F-232	Sequence 232, App
1148	104.5	3.3	942	4	US-08-411-295F-281	Sequence 281, App	1221	103.5	3.3	884	4	US-08-467-602-315	Sequence 315, App
1149	104.5	3.3	960	4	US-09-595-424-8	Sequence 8, Appl	1222	103.5	3.3	884	4	US-08-411-295F-241	Sequence 241, App
1150	104.5	3.3	990	4	US-09-949-016-10562	Sequence 10562, A	1223	103.5	3.3	889	4	US-08-467-602-340	Sequence 340, App
1151	104.5	3.3	1008	4	US-09-252-991A-29419	Sequence 29419, A	1224	103.5	3.3	889	4	US-08-411-295F-266	Sequence 266, App
1152	104.5	3.3	1241	3	US-09-040-774-2	Sequence 2, Appl	1225	103.5	3.3	898	4	US-08-467-602-351	Sequence 351, App
1153	104.5	3.3	1601	4	US-09-345-4738-40	Sequence 40, Appl	1226	103.5	3.3	898	4	US-08-411-295F-277	Sequence 277, App
1154	104.5	3.3	1706	4	US-09-252-991A-31760	Sequence 31760, A	1227	103.5	3.3	902	3	US-08-470-335-242	Sequence 242, App
1155	104	3.3	208	4	US-09-252-991A-25785	Sequence 25785, A	1228	103.5	3.3	902	4	US-08-467-602-296	Sequence 296, App
1156	104	3.3	235	4	US-09-602-543-4	Sequence 4, Appl	1229	103.5	3.3	902	4	US-08-411-295F-222	Sequence 222, App
1157	104	3.3	285	4	US-09-071-035-202	Sequence 202, App	1230	103.5	3.3	909	4	US-08-467-602-348	Sequence 348, App
1158	104	3.3	350	4	US-09-252-991A-22302	Sequence 22302, A	1231	103.5	3.3	909	4	US-08-411-295F-274	Sequence 274, App
1159	104	3.3	364	4	US-09-949-016-9994	Sequence 9994, Ap	1232	103.5	3.3	911	3	US-08-470-335-245	Sequence 245, App
1160	104	3.3	379	4	US-09-949-016-10372	Sequence 10372, A	1233	103.5	3.3	911	4	US-08-467-602-310	Sequence 310, App
1161	104	3.3	426	4	US-09-252-991A-21503	Sequence 21503, A	1234	103.5	3.3	911	4	US-08-411-295F-236	Sequence 236, App
1162	104	3.3	461	4	US-09-949-016-9667	Sequence 9667, Ap	1235	103.5	3.3	918	4	US-08-467-602-357	Sequence 357, App
1163	104	3.3	463	4	US-09-949-016-6090	Sequence 6090, Ap	1236	103.5	3.3	918	4	US-08-411-295F-283	Sequence 283, App
1164	104	3.3	472	4	US-09-252-991A-31978	Sequence 31978, A	1237	103.5	3.3	922	4	US-08-467-602-304	Sequence 304, App
1165	104	3.3	538	4	US-09-252-991A-32064	Sequence 32064, A	1238	103.5	3.3	922	4	US-08-411-295F-230	Sequence 230, App
1166	104	3.3	553	5	PCT-US94-00658-4	Sequence 4, Appl	1239	103.5	3.3	929	4	US-09-254-594-3	Sequence 3, Appl
1167	104	3.3	697	4	US-09-252-991A-25363	Sequence 25363, A	1240	103.5	3.3	931	4	US-08-467-602-316	Sequence 316, App
1168	104	3.3	1088	4	US-09-233-857-4	Sequence 4, Appl	1241	103.5	3.3	931	4	US-08-411-295F-242	Sequence 242, App
1169	104	3.3	1147	1	US-08-131-365B-38	Sequence 38, Appl	1242	103.5	3.3	936	4	US-08-467-602-338	Sequence 338, App
1170	104	3.3	1147	2	US-08-668-123-38	Sequence 38, Appl	1243	103.5	3.3	936	4	US-08-411-295F-264	Sequence 264, App
1171	104	3.3	1164	4	US-09-949-016-9845	Sequence 9845, Ap	1244	103.5	3.3	941	4	US-07-757-022B-14	Sequence 14, Appl
1172	104	3.3	1171	4	US-09-949-016-9738	Sequence 9738, Ap	1245	103.5	3.3	945	4	US-08-467-602-352	Sequence 352, App
1173	103.5	3.3	177	4	US-09-252-991A-23609	Sequence 23609, A	1246	103.5	3.3	945	4	US-08-411-295F-278	Sequence 278, App
1174	103.5	3.3	179	4	US-09-148-545-177	Sequence 177, App	1247	103.5	3.3	956	4	US-08-467-602-346	Sequence 346, App
1175	103.5	3.3	333	4	US-10-101-464A-561	Sequence 561, App	1248	103.5	3.3	956	4	US-08-411-295F-272	Sequence 272, App
1176	103.5	3.3	415	3	US-09-006-353A-6	Sequence 6, Appl	1249	103.5	3.3	965	4	US-08-467-602-358	Sequence 358, App
1177	103.5	3.3	429	4	US-09-252-991A-30376	Sequence 30376, A	1250	103.5	3.3	965	4	US-08-411-295F-284	Sequence 284, App
1178	103.5	3.3	454	4	US-09-270-767-45646	Sequence 45646, A	1251	103.5	3.3	984	2	US-08-449-645A-19	Sequence 19, Appl
1179	103.5	3.3	479	4	US-08-467-602-307	Sequence 307, App	1252	103.5	3.3	984	5	PCT-US95-04681-19	Sequence 19, Appl
1180	103.5	3.3	479	4	US-08-411-295F-233	Sequence 233, App	1253	103.5	3.3	984	5	PCT-US95-04681-19	Sequence 19, Appl
1181	103.5	3.3	513	4	US-08-467-602-349	Sequence 349, App	1254	103.5	3.3	1022	4	US-07-757-022B-84	Sequence 84, Appl
1182	103.5	3.3	513	4	US-08-411-295F-275	Sequence 275, App	1255	103.5	3.3	1038	4	US-07-757-022B-74	Sequence 74, Appl
1183	103.5	3.3	529	4	US-08-411-295F-251	Sequence 251, App	1256	103.5	3.3	1038	4	US-07-757-022B-58	Sequence 58, Appl
1184	103.5	3.3	611	4	US-09-252-991A-16817	Sequence 16817, A	1257	103.5	3.3	1140	4	US-07-757-022B-104	Sequence 104, App
1185	103.5	3.3	611	4	US-09-252-991A-32402	Sequence 32402, A	1258	103.5	3.3	1143	2	US-08-310-912A-108	Sequence 108, App
1186	103.5	3.3	629	1	US-08-278-635B-6	Sequence 6, Appl	1259	103.5	3.3	1143	3	US-09-301-085-108	Sequence 108, App
1187	103.5	3.3	629	3	US-08-464-258B-6	Sequence 6, Appl	1260	103.5	3.3	1143	5	PCT-US95-04589-108	Sequence 108, App
1188	103.5	3.3	629	3	US-08-471-961-6	Sequence 6, Appl	1261	103.5	3.3	1144	1	US-08-261-663A-2	Sequence 2, Appl
1189	103.5	3.3	629	4	US-09-345-109C-6	Sequence 6, Appl	1262	103.5	3.3	1144	1	US-08-261-663A-9	Sequence 9, Appl
1190	103.5	3.3	632	4	US-09-252-991A-23129	Sequence 23129, A	1263	103.5	3.3	1144	3	US-08-930-996A-9	Sequence 9, Appl
1191	103.5	3.3	638	3	US-08-470-335-240	Sequence 240, App	1264	103.5	3.3	1144	3	US-09-357-206A-3	Sequence 3, Appl
1192	103.5	3.3	638	4	US-08-467-602-297	Sequence 297, App	1265	103.5	3.3	1144	4	US-09-813-742A-3	Sequence 3, Appl
1193	103.5	3.3	638	4	US-08-411-295F-223	Sequence 223, App	1266	103.5	3.3	1144	5	PCT-US95-07754A-2	Sequence 2, Appl
1194	103.5	3.3	647	3	US-08-470-335-243	Sequence 243, App	1267	103.5	3.3	1144	5	PCT-US95-07754A-4	Sequence 4, Appl
1195	103.5	3.3	647	4	US-08-467-602-308	Sequence 308, App	1268	103.5	3.3	1270	4	US-07-757-022B-44	Sequence 44, Appl

1269	103.5	3.3	1296	3	US-08-728-603-15	Sequence 15, Appl	1342	102.5	3.3	1248	3	US-09-323-735-2	Sequence 2, Appl
1270	103.5	3.3	1311	4	US-07-757-022B-42	Sequence 42, Appl	1343	102.5	3.3	1345	4	US-09-949-016-11209	Sequence 11209, A
1271	103.5	3.3	1313	4	US-07-757-022B-142	Sequence 142, App	1344	102.5	3.3	1350	4	US-09-264-512B-2	Sequence 2, Appl
1272	103.5	3.3	1314	4	US-07-757-022B-50	Sequence 50, Appl	1345	102.5	3.3	1817	3	US-09-004-838-125	Sequence 125, App
1273	103.5	3.3	1320	4	US-07-757-022B-46	Sequence 46, Appl	1346	102	3.3	140	4	US-09-270-767-33523	Sequence 33523, A
1274	103.5	3.3	1320	4	US-07-757-022B-60	Sequence 60, Appl	1347	102	3.3	236	4	US-09-252-991A-29311	Sequence 29311, A
1275	103.5	3.3	1354	4	US-07-757-022B-48	Sequence 48, Appl	1348	102	3.3	476	4	US-09-248-796A-18994	Sequence 18994, A
1276	103.5	3.3	1361	4	US-07-757-022B-40	Sequence 40, Appl	1349	102	3.3	491	4	US-10-029-180-106	Sequence 106, App
1277	103.5	3.3	1363	4	US-07-757-022B-52	Sequence 52, Appl	1350	102	3.3	495	4	US-10-006-011A-4	Sequence 4, Appl
1278	103.5	3.3	1404	4	US-07-757-022B-2	Sequence 2, Appl	1351	102	3.3	516	4	US-09-902-540-11496	Sequence 11496, A
1279	103.5	3.3	1404	4	US-07-757-022B-62	Sequence 62, Appl	1352	102	3.3	534	4	US-09-252-991A-22537	Sequence 22537, A
1280	103.5	3.3	1603	4	US-09-298-970A-1	Sequence 1, Appl	1353	102	3.3	536	1	US-08-354-456A-2	Sequence 2, Appl
1281	103.5	3.3	1603	4	US-09-949-016-6136	Sequence 6136, Ap	1354	102	3.3	536	1	US-07-999-280A-2	Sequence 2, Appl
1282	103.5	3.3	1609	4	US-09-949-016-10910	Sequence 10910, A	1355	102	3.3	536	1	US-08-426-279-2	Sequence 2, Appl
1283	103.5	3.3	1911	4	US-09-854-856-64	Sequence 64, Appl	1356	102	3.3	536	1	US-08-401-013-2	Sequence 2, Appl
1284	103.5	3.3	1939	4	US-09-854-856-48	Sequence 48, Appl	1357	102	3.3	536	1	US-08-426-570-2	Sequence 2, Appl
1285	103.5	3.3	1971	4	US-09-854-856-32	Sequence 32, Appl	1358	102	3.3	536	3	US-08-425-876-2	Sequence 2, Appl
1286	103.5	3.3	1999	4	US-09-854-856-16	Sequence 16, Appl	1359	102	3.3	536	3	US-08-426-243-2	Sequence 2, Appl
1287	103.5	3.3	2004	4	US-09-854-856-58	Sequence 58, Appl	1360	102	3.3	536	3	US-08-401-632-2	Sequence 2, Appl
1288	103.5	3.3	2032	4	US-09-854-856-42	Sequence 42, Appl	1361	102	3.3	554	5	PCT-US93-08282-2	Sequence 2, Appl
1289	103.5	3.3	2048	4	US-09-854-856-62	Sequence 62, Appl	1362	102	3.3	567	4	US-09-538-092-1365	Sequence 1365, Ap
1290	103.5	3.3	2064	4	US-09-854-856-26	Sequence 26, Appl	1363	102	3.3	674	3	US-07-757-342D-10	Sequence 10, Appl
1291	103.5	3.3	2076	4	US-09-854-856-46	Sequence 46, Appl	1364	102	3.3	674	4	US-09-451-657B-10	Sequence 10, Appl
1292	103.5	3.3	2092	4	US-09-854-856-10	Sequence 10, Appl	1365	102	3.3	720	3	US-08-872-855-4	Sequence 4, Appl
1293	103.5	3.3	2108	4	US-09-854-856-30	Sequence 30, Appl	1366	102	3.3	722	3	US-08-981-392-12	Sequence 12, Appl
1294	103.5	3.3	2136	4	US-09-854-856-14	Sequence 14, Appl	1367	102	3.3	722	4	US-09-908-322-12	Sequence 12, Appl
1295	103.5	3.3	2141	4	US-09-854-856-56	Sequence 56, Appl	1368	102	3.3	729	3	US-08-872-855-8	Sequence 8, Appl
1296	103.5	3.3	2157	4	US-09-854-856-52	Sequence 52, Appl	1369	102	3.3	749	4	US-09-252-991A-20752	Sequence 20752, A
1297	103.5	3.3	2169	4	US-09-854-856-40	Sequence 40, Appl	1370	102	3.3	865	4	US-09-252-991A-18683	Sequence 18683, A
1298	103.5	3.3	2179	4	US-09-949-016-8129	Sequence 8129, Ap	1371	102	3.3	888	4	US-09-077-940A-4	Sequence 4, Appl
1299	103.5	3.3	2201	4	US-09-854-856-24	Sequence 24, Appl	1372	102	3.3	946	4	US-09-902-540-16817	Sequence 16817, A
1300	103.5	3.3	2217	4	US-09-854-856-20	Sequence 20, Appl	1373	102	3.3	1135	4	US-09-294-298A-21	Sequence 21, Appl
1301	103.5	3.3	2229	4	US-09-854-856-8	Sequence 8, Appl	1374	102	3.3	1285	3	US-08-974-549A-600	Sequence 600, App
1302	103.5	3.3	2294	4	US-09-854-856-50	Sequence 50, Appl	1375	102	3.3	1285	4	US-08-912-951-314	Sequence 314, App
1303	103.5	3.3	2354	4	US-09-854-856-18	Sequence 18, Appl	1376	102	3.3	1285	4	US-09-402-181B-600	Sequence 600, App
1304	103.5	3.3	3739	3	US-09-105-537-33	Sequence 33, Appl	1377	102	3.3	1285	4	US-09-721-456-600	Sequence 600, App
1305	103	3.3	166	4	US-10-101-464A-727	Sequence 727, App	1378	102	3.3	1299	4	US-09-252-991A-31121	Sequence 31121, A
1306	103	3.3	216	4	US-09-248-796A-25076	Sequence 25076, A	1379	102	3.3	1325	4	US-09-294-298A-6	Sequence 6, Appl
1307	103	3.3	285	4	US-10-101-464A-692	Sequence 692, App	1380	102	3.3	1376	4	US-09-294-298A-4	Sequence 4, Appl
1308	103	3.3	321	4	US-09-252-991A-29519	Sequence 29519, A	1381	102	3.3	1423	4	US-09-294-298A-2	Sequence 2, Appl
1309	103	3.3	327	4	US-09-513-505-14	Sequence 14, Appl	1382	102	3.3	2441	1	US-08-194-468-2	Sequence 2, Appl
1310	103	3.3	359	4	US-09-842-164A-4	Sequence 4, Appl	1383	102	3.3	2441	3	US-08-961-739-2	Sequence 2, Appl
1311	103	3.3	392	4	US-09-252-991A-27219	Sequence 27219, A	1384	102	3.3	2441	3	US-09-514-247A-8	Sequence 8, Appl
1312	103	3.3	594	4	US-09-252-991A-20849	Sequence 20849, A	1385	102	3.3	2441	4	US-09-686-316-2	Sequence 2, Appl
1313	103	3.3	661	1	US-08-394-326-2	Sequence 2, Appl	1386	101.5	3.2	180	4	US-09-252-991A-18269	Sequence 18269, A
1314	103	3.3	661	3	US-09-082-306-2	Sequence 2, Appl	1387	101.5	3.2	268	4	US-09-270-767-42555	Sequence 42555, A
1315	103	3.3	666	3	US-09-228-986-68	Sequence 68, Appl	1388	101.5	3.2	271	4	US-09-252-991A-32772	Sequence 32772, A
1316	103	3.3	666	4	US-10-101-464A-68	Sequence 68, Appl	1389	101.5	3.2	292	4	US-09-312-283C-384	Sequence 384, App
1317	103	3.3	711	3	US-09-228-986-79	Sequence 79, Appl	1390	101.5	3.2	337	4	US-09-252-991A-31851	Sequence 31851, A
1318	103	3.3	711	4	US-10-101-464A-79	Sequence 79, Appl	1391	101.5	3.2	340	4	US-08-635-130A-4	Sequence 4, Appl
1319	103	3.3	761	2	US-08-707-237A-84	Sequence 84, Appl	1392	101.5	3.2	340	4	US-09-949-016-6076	Sequence 6076, Ap
1320	103	3.3	798	4	US-09-252-991A-23774	Sequence 23774, A	1393	101.5	3.2	372	4	US-09-252-991A-27599	Sequence 27599, A
1321	103	3.3	863	2	US-08-666-271-2	Sequence 2, Appl	1394	101.5	3.2	397	4	US-09-949-016-10967	Sequence 10967, A
1322	103	3.3	1041	4	US-09-949-016-6751	Sequence 6751, Ap	1395	101.5	3.2	455	4	US-08-635-130A-2	Sequence 2, Appl
1323	103	3.3	1099	3	US-09-442-100-2	Sequence 2, Appl	1396	101.5	3.2	458	4	US-09-252-991A-30535	Sequence 30535, A
1324	103	3.3	1099	4	US-08-938-106-2	Sequence 2, Appl	1397	101.5	3.2	465	3	US-09-004-838-52	Sequence 52, Appl
1325	103	3.3	1099	4	US-09-442-102-2	Sequence 2, Appl	1398	101.5	3.2	482	3	US-09-004-838-113	Sequence 113, App
1326	103	3.3	2074	4	US-09-491-356C-9	Sequence 9, Appl	1399	101.5	3.2	546	4	US-09-252-991A-25851	Sequence 25851, A
1327	103	3.3	8991	4	US-08-714-741-32	Sequence 32, Appl	1400	101.5	3.2	628	4	US-09-252-991A-30904	Sequence 30904, A
1328	102.5	3.3	225	4	US-09-071-035-204	Sequence 204, App	1401	101.5	3.2	723	3	US-09-949-016-10352	Sequence 10352, A
1329	102.5	3.3	316	4	US-09-252-991A-25345	Sequence 25345, A	1402	101.5	3.2	728	3	US-08-981-392-2	Sequence 2, Appl
1330	102.5	3.3	323	4	US-10-101-464A-764	Sequence 764, App	1403	101.5	3.2	728	4	US-09-908-322-2	Sequence 2, Appl
1331	102.5	3.3	385	1	US-08-597-545-1	Sequence 1, Appl	1404	101.5	3.2	855	3	US-09-813-819-2	Sequence 2, Appl
1332	102.5	3.3	385	1	US-08-457-135-1	Sequence 1, Appl	1405	101.5	3.2	855	3	US-09-920-048-2	Sequence 2, Appl
1333	102.5	3.3	385	4	US-09-142-027A-10	Sequence 10, Appl	1406	101.5	3.2	855	1	US-10-014-501-2	Sequence 2, Appl
1334	102.5	3.3	427	4	US-09-252-991A-30434	Sequence 30434, A	1407	101.5	3.2	869	1	US-08-188-582-32	Sequence 32, Appl
1335	102.5	3.3	430	4	US-09-252-991A-16681	Sequence 16681, A	1408	101.5	3.2	869	1	US-08-646-715-32	Sequence 32, Appl
1336	102.5	3.3	467	4	US-09-252-991A-29057	Sequence 29057, A	1409	101.5	3.2	869	4	US-09-949-016-6649	Sequence 6649, Ap
1337	102.5	3.3	554	1	US-08-347-254-1	Sequence 1, Appl	1410	101.5	3.2	903	2	US-08-853-310-2	Sequence 2, Appl
1338	102.5	3.3	554	2	US-08-464-463-1	Sequence 1, Appl	1411	101.5	3.2	930	4	US-09-254-594-6	Sequence 6, Appl
1339	102.5	3.3	634	3	US-09-295-744A-2	Sequence 2, Appl	1412	101.5	3.2	957	4	US-09-595-684B-27	Sequence 27, Appl
1340	102.5	3.3	1065	4	US-09-949-016-11618	Sequence 11618, A	1413	101.5	3.2	987	4	US-09-252-991A-27483	Sequence 27483, A
1341	102.5	3.3	1248	2	US-09-080-897-2	Sequence 2, Appl	1414	101.5	3.2	1248	3	US-08-882-046-6	Sequence 6, Appl



[illegible]

## RESULT 2

US-09-944-457-69  
; Sequence 69, Application US/09944457  
; Patent No. 6734288  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Botstein, David  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Kljavin, Ivar  
; APPLICANT: Napier, Mary  
; APPLICANT: Roy, Margaret  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Wood, William  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; TITLE OF INVENTION: ACIDS ENCODING THE SAME  
; FILE REFERENCE: P2548P1C1  
; CURRENT APPLICATION NUMBER: US/09/944,457  
; CURRENT FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 09/866,028  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/067,411  
; PRIOR FILING DATE: December 3, 1997  
; PRIOR APPLICATION NUMBER: 60/069,334  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069335  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,278  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,425  
; PRIOR FILING DATE: December 12, 1997  
; PRIOR APPLICATION NUMBER: 60/069,696  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,694  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,702  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,870  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/069,873  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/068,017

Db 121 ALRLAGLQQLDEGLFSRLNLDVSDNQLRVPVIRGLRGLRRLRAGNTRIAQL 180  
QY 181 RPEDLAGLAALQELDVSNLSLQALPGDLGSLFPRLLRLLAAARNPFCVPLSWFGPWRE 240  
Db 181 RPEDLAGLAALQELDVSNLSLQALPGDLGSLFPRLLRLLAAARNPFCVPLSWFGPWRE 240  
QY 241 SHVTLASPETRCHFPKPNAGRLLLLELDYADFGCPATTTATVTRPVVREPTALSSSL 300  
Db 241 SHVTLASPETRCHFPKPNAGRLLLLELDYADFGCPATTTATVTRPVVREPTALSSSL 300  
QY 301 APTWLSPTAPATEAPSPPTAPPTVGPVPODPCPSTCLNGTCHLGRHHLACLCPG 360  
Db 301 APTWLSPTAPATEAPSPPTAPPTVGPVPODPCPSTCLNGTCHLGRHHLACLCPG 360  
QY 361 FTGLCYESQMGQGTREPTPTVTRPPRSRLTLGIEPVSPSTSLRGLQRYLQSSSVQLRSRL 420  
Db 361 FTGLCYESQMGQGTREPTPTVTRPPRSRLTLGIEPVSPSTSLRGLQRYLQSSSVQLRSRL 420  
QY 421 LTYRNLGDPKRLVTLRLPASLAETVTLQLRPNATYSVCMPLGPRVPEGEACEAHT 480  
Db 421 LTYRNLGDPKRLVTLRLPASLAETVTLQLRPNATYSVCMPLGPRVPEGEACEAHT 480  
QY 481 PPAVSHNAPVTOAREGNLPLLIAPALAAVLAALAAVGAAYCVRRGRAMAAADKGOV 540  
Db 481 PPAVSHNAPVTOAREGNLPLLIAPALAAVLAALAAVGAAYCVRRGRAMAAADKGOV 540  
QY 541 GFGAGPLEGKVLKPLPCKPATEGGEALPGSGSECEVPLMGFPGLQSPHLHAKPYI 598  
Db 541 GFGAGPLEGKVLKPLPCKPATEGGEALPGSGSECEVPLMGFPGLQSPHLHAKPYI 598

RESULT 3  
US-09-063-950-2  
; Sequence 2, Application US/09063950C  
; Patent No. 6225085  
; GENERAL INFORMATION:  
; APPLICANT: Holtzman, Douglas A.  
; TITLE OF INVENTION: NOVEL LRSG PROTEIN AND NUCLEIC ACID MOLECULES AND USES  
; FILE OF INVENTION: THEREFOR  
; FILE REFERENCE: MEI-019  
; CURRENT APPLICATION NUMBER: US/09/063,950C  
; PRIOR FILING DATE: 1998-04-21  
; NUMBER OF SEQ ID NOS: 9  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2  
; LENGTH: 673  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-063-950-2

Query Match 98.4%; Score 3083.5; DB 3; Length 673;  
Best Local Similarity 88.7%; Pred. No. 1.1e-213;  
Matches 597; Conservative 0; Mismatches 1; Indels 75; Gaps 1;

QY 1 MCSRVPPLLLPLLLLALGFGVQCGPCSCQSPQTVFCTARQTTVPRDVPDPTVGLYVF 60  
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QY 61 ENGITMLDASSFAGLPGQLDLSQNIAS----- 90  
Db 61 ENGITMLDAGSFAGLPGQLDLSQNIASLPSGVFQPLANLSNLDLTANRLHEITNETF 120  
QY 91 ----- 105  
Db 121 RGLRRLERYLGNKRIHQPAGFDTLDRLELKLQDNELRALPRLRLDLSHNS 180  
QY 106 LLALEPGILDANVEALRLAGLGLQQLDEGLFRLRLNLDVSDNQLRVPVIRGLRG 165  
Db 181 LLALEPGILDANVEALRLAGLGLQQLDEGLFRLRLNLDVSDNQLRVPVIRGLRG 240  
QY 166 LTRLRLAGNTRIAQLRPEDLAGLAALQELDVSNLSLQALPGDLGSLFPRLLRLLAAARNPF 225

Db 241 LTRLRLAGNTRIAQLRPEDLAGLAALQELDVSNLSLQALPGDLGSLFPRLLRLLAAARNPF 300  
QY 226 NCVCPLSWFGPWVRESHVTLASPEETRCHFPKPNAGRLLELDYADFGCPATTTATVPT 285  
Db 301 NCVCPLSWFGPWVRESHVTLASPEETRCHFPKPNAGRLLELDYADFGCPATTTATVPT 360  
QY 286 TRPVVREPTALSSSLAPTWSLPTAPATEAPSPPTAPPTVGPVPODPCPSTCLNGTCH 345  
Db 361 TRPVVREPTALSSSLAPTWSLPTAPATEAPSPPTAPPTVGPVPODPCPSTCLNGTCH 420  
QY 346 HLGRHHLACLCPGFTGLCYESQMGQGTREPTPTVTRPPRSRLTLGIEPVSPSTSLRVL 405  
Db 421 HLGRHHLACLCPGFTGLCYESQMGQGTREPTPTVTRPPRSRLTLGIEPVSPSTSLRVL 480  
QY 406 QRYLQSSSVQLRSRLTYRNLGDPKRLVTLRLPASLAETVTLQLRPNATYSVCMPLGP 465  
Db 481 QRYLQSSSVQLRSRLTYRNLGDPKRLVTLRLPASLAETVTLQLRPNATYSVCMPLGP 540  
QY 466 GRVPEGEACEAHTPPAVSHNAPVTOAREGNLPLLIAPALAAVLAALAAVGAAYCVR 525  
Db 541 GRVPEGEACEAHTPPAVSHNAPVTOAREGNLPLLIAPALAAVLAALAAVGAAYCVR 600  
QY 526 RGRAMAAADKGOVPGAGPLEGKVLKPLPCKPATEGGEALPGSGSECEVPLMGFP 585  
Db 601 RGRAMAAADKGOVPGAGPLEGKVLKPLPCKPATEGGEALPGSGSECEVPLMGFP 660  
QY 586 PGLQSPHLHAKPYI 598  
Db 661 PGLQSPHLHAKPYI 673

RESULT 4  
US-09-520-781-10  
; Sequence 10, Application US/09520781  
; Patent No. 6689866  
; GENERAL INFORMATION:  
; APPLICANT: Shimkets, Richard A.  
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES AND PROTEINS ENCODED THEREBY  
; FILE REFERENCE: 15966-540 No. 6689866el Polynucleotides  
; CURRENT APPLICATION NUMBER: US/09/520,781  
; CURRENT FILING DATE: 2000-03-08  
; PRIOR APPLICATION NUMBER: USSN 60/123,667  
; PRIOR FILING DATE: 1999-03-09  
; NUMBER OF SEQ ID NOS: 81  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 10  
; LENGTH: 653  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-520-781-10

Query Match 10.7%; Score 337; DB 4; Length 653;  
Best Local Similarity 23.6%; Pred. No. 4.1e-16;  
Matches 159; Conservative 77; Mismatches 231; Indels 206; Gaps 25;

QY 7 LLLPLLLL-----LALGFGVQCGPCSCQCS-QPQTVFCTARQTTVPRDVPD 53  
Db 17 ILLPFVYLTAQWILCAAIAAASAGPQNCPSVCSCNQFSKVCTRRGLSEVPQGI 76  
QY 54 TVGLVVFENGITMLDASSFAGLPGQLDLSQNIASL-----LPRLLDLSHNSLL 107  
Db 77 TRYALMENNIOIADTFRHLHLLEVQLGRNSIRQIEVGAFNGLASLTLELFDNFLT 136  
QY 108 ALEPGILDAN-----VVALRLAGLG-----LQQLDEGLFSRLR 141  
Db 137 VIPSGAFYLSKRLRLNRRNPIESIPVAFNRVPSLMDLDGELKKLYISEGAFEGFL 196  
QY 142 N-----LHDLVDSDNQLRVPVIRGLRGLRRLRAGNTRIA 178  
Db 197 NLKYLNLGNCKNIKMDPNLTPVLGLELEMSGNHFFPEIRPGSFGHLSLKKLWVM-NSQVS 255  
QY 179 QURPEDLAGLAALQELDVSNLSLQALPGDLGSLFPRLLRLLAA-----RNPFCVCLSWFG 235

Db 256 LIERNAPDGLASLVELNLAHNNLSLPHD---LFTPLRYLVELHLHHPNWCDCDILWLW 312  
Qy 236 PWVRESHVTLASPEETRCHFPKPNAGRLLELDVADFGCPATTTATVPTTRPVVREPTA 295  
Db 313 WMLRE-YIPTNSTCCGRCHAPMHRGRYLVEVDQASFOCSA-----PFIMDAPRLNI 364  
Qy 296 LSSSLAP-----TWLSPTAPA--TEAPSPSTAPPTVGPVQP-----QDCPPSTC 339  
Db 365 SEGRMAELKCRTPPMSSVKWLLPNCVTLSHASRHPRIVLNDGTILNFHSHVLLSDTGVYTC 424  
Qy 340 -----LNGGTCCHLGRHHLACLCEPGFTGLYCESOMGQGTSPPTVTP-- 383  
Db 425 MGTNVAGNSASAYLNGSTAEINTSNY-----SFTTGTGETTEISPEDTRKY 473  
Qy 384 RPPRLTLTGIEPVSPTSLRVGLQ 406  
Db 474 KPVPTTSTGYQPAYTTTTLVLIQ-----TTRVPKQVA 505  
Qy 444 EYTVTLRPNATYSCVMPGLGPRVGEAGEAHTPPAVHSNHPVTOAREGNPLLI 503  
Db 506 -----VPATD-----TTDKMOTSLDEVMTTK-----II 529  
Qy 504 APALAAVLLAALAAVGAAYCVR-----GRAMAAAQDKQVGFAGPGLLEGVKVLEPGP 560  
Db 530 ICGFVAVTLAAAMLIVFYKLKRRHQORSTVTAAR-----TVELIQVD-EDIP 576  
Qy 561 KATEGGGEALPSG 573  
Db 577 AATSAATAAPSG 589

RESULT 5  
US-09-520-781-12  
; Sequence 12, Application US/09520781  
; Patent No. 6689866  
; GENERAL INFORMATION:  
; APPLICANT: Shinkets, Richard A.  
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES AND PROTEINS ENCODED THEREBY  
; FILE REFERENCE: 15966-540 No. 6689866el Polynucleotides  
; CURRENT APPLICATION NUMBER: US/09/520,781  
; CURRENT FILING DATE: 2000-03-08  
; PRIOR APPLICATION NUMBER: USSN 60/123,667  
; PRIOR FILING DATE: 1999-03-09  
; NUMBER OF SEQ ID NOS: 81  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 12  
; LENGTH: 590  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-520-781-12

Query Match 10.6%; Score 333; DB 4; Length 590;  
Best Local Similarity 25.8%; Pred. No. 7e-16;  
Matches 130; Conservative 60; Mismatches 187; Indels 126; Gaps 18;  
Qy 7 LLLPLLLL-----LALGPGVCGSCGCS-OPQTVFCTARQGTTPRDVPPD 53  
Db 17 ILLPFVYLTAQWILCAAIAAASAGPQNCPSVCSNQGSKVCTRGLSEVPQGI PSN 76  
Qy 54 TVGLVVFENGITMLDASSFAGLPGLQLDLSQNIASLR-----LPRLLLDLSHNSLL 107  
Db 77 TRYLMENNTQMIQADTFRHLHLHLEVLQGRNSIRQIEVGFAGFGLASLSTLEIFDNWLT 136  
Qy 108 ALEPGILDITAN-----VEALRLAGLG-----LQQLDEGLFSRLR 141  
Db 137 VIPSGAFVYLSKRLRLRNPIESIPSYAFNRVPSLRMLDLGELKLEYISEGAFGLF 196  
Qy 142 N-----LHLDVSDNQLERV-PPVIRGLRGLTRLRLAGNTRIA 178  
Db 197 NLKYLNLGMCNIKOMPNTPLVGLFELEMSGNHFPPIRPGFHLGSLSLKLLWVM-NSQVS 255  
Qy 179 OLRPEDLAGLAALQELDVSNLSLQALPGDLGSLFPRLRLAAA---RNPFCVCPLSWFG 235

Db 256 LIERNAPDGLASLVELNLAHNNLSLPHD---LFTPLRYLVELHLHHPNWCDCDILWLW 312  
Qy 236 PWVRESHVTLASPEETRCHFPKPNAGRLLELDVADFGCPATTTATVPTTRPVVREPTA 295  
Db 313 WMLRE-YIPTNSTCCGRCHAPMHRGRYLVEVDQASFOCSA-----PFIMDAPRLNI 364  
Qy 296 LSSSLAP-----TWLSPTAPA--TEAPSPSTAPPTVGPVQP-----QDCPPSTC 339  
Db 365 SEGRMAELKCRTPPMSSVKWLLPNCVTLSHASRHPRIVLNDGTILNFHSHVLLSDTGVYTC 424  
Qy 340 -----LNGGTCCHLGRHHLACLCEPGFTGLYCESOMGQGTSPPTVTP-- 383  
Db 425 MGTNVAGNSASAYLNGSTAEINTSNY-----SFTTGTGETTEISPEDTRKY 473  
Qy 384 RPPRLTLTGIEPVSPTSLRVGLQ 406  
Db 474 KPVPTTSTGYQPAYTTTTLVLIQ-----TTRVPKQVA 505  
RESULT 6  
US-09-063-950-5  
; Sequence 5, Application US/09063950C  
; Patent No. 6225085  
; GENERAL INFORMATION:  
; APPLICANT: Holtzman, Douglas A.  
; TITLE OF INVENTION: NOVEL LRSG PROTEIN AND NUCLEIC ACID MOLECULES AND USES  
; FILE REFERENCE: MEI-019  
; CURRENT APPLICATION NUMBER: US/09/063,950C  
; CURRENT FILING DATE: 1998-04-21  
; NUMBER OF SEQ ID NOS: 9  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 605  
; TYPE: PRT  
; ORGANISM: Papio hamadryas  
US-09-063-950-5

Query Match 10.3%; Score 322; DB 3; Length 605;  
Best Local Similarity 36.2%; Pred. No. 4.5e-15;  
Matches 100; Conservative 39; Mismatches 97; Indels 40; Gaps 11;  
Qy 7 LLLPLLLL-----LALG-----PGVQG-----CPSGCGCSQPO-----TVFCTARQGT 45  
Db 8 LALALLLSLVALGPRSLGABPTGAEAGPACATCACSYDDEVNELSVFCSRNLTR 67  
Qy 46 VPRDVPDPTVGLYVFENGITMLDASSFAGLPGLQLDLSQNIASLRPLRL----- 98  
Db 68 LPDGIPTGTOALMLDSNNLSIPPAAFRNLSLAFNLQGGQLGSLB-PQALLGLENLCH 126  
Qy 99 LDLSHNSLLALEPGILDITANVEALRLAGLG---LQQLDEGLFSRLRLHLDVSDNQLER 155  
Db 127 LHLERNOLRSIANGTF--AYTPALALGLSNNRSLRLEDGLFEGLGNLDNLGNWSLAV 184  
Qy 156 VP-PVIRGLRGLTRLAGNTRIAQLRPEDLAGLAALQELDVSNLSLQALPGDLGSLGPPR 214  
Db 185 LPDAAFGLGGLRELVLAGN-RLAYLQPALFSGUAEARELDSRNALRAIKANVFAQLPR 243  
Qy 215 LRLAAARNFNCVCPLSWFG-----PWVRESHVTIA 246  
Db 244 LQKLYLDRNLIAAVAPGAFGLKALRWLDLSHNRVA 279

RESULT 7  
US-09-907-794A-28  
; Sequence 28, Application US/09907794A  
; Patent No. 6635468  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone  
 APPLICANT: Filvaroff, Ellen  
 APPLICANT: Fong, Sherman  
 APPLICANT: Gao, Wei-Qiang  
 APPLICANT: Gerber, Hanspeter  
 APPLICANT: Gerritsen, Mary E.  
 APPLICANT: Goddard, A.  
 APPLICANT: Godowski, Paul J.  
 APPLICANT: Grimaldi, Christopher J.  
 APPLICANT: Gurney, Austin L.  
 APPLICANT: Hillan, Kenneth, J.  
 APPLICANT: Kljavin, Ivar J.  
 APPLICANT: Mather, Jennie P.  
 APPLICANT: Pan, James  
 APPLICANT: Paoni, Nicholas F.  
 APPLICANT: Roy, Margaret Ann  
 APPLICANT: Stewart, Timothy A.  
 APPLICANT: Tumas, Daniel  
 APPLICANT: Williams, P. Mickey  
 APPLICANT: Wood, William, I.  
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 TITLE OF INVENTION: Acids Encoding the Same  
 FILE REFERENCE: 10466-14  
 CURRENT APPLICATION NUMBER: US/09/907,794A  
 CURRENT FILING DATE: 2001-07-17  
 PRIOR APPLICATION NUMBER: PCT/US00/04414  
 PRIOR FILING DATE: 2000-02-22  
 PRIOR APPLICATION NUMBER: US 60/143,048  
 PRIOR FILING DATE: 1999-07-07  
 PRIOR APPLICATION NUMBER: US 60/145,698  
 PRIOR FILING DATE: 1999-07-26  
 PRIOR APPLICATION NUMBER: US 60/146,222  
 PRIOR FILING DATE: 1999-07-28  
 PRIOR APPLICATION NUMBER: PCT/US99/20594  
 PRIOR FILING DATE: 1999-09-08  
 PRIOR APPLICATION NUMBER: PCT/US99/20944  
 PRIOR FILING DATE: 1999-09-13  
 PRIOR APPLICATION NUMBER: PCT/US99/21090  
 PRIOR FILING DATE: 1999-09-15  
 PRIOR APPLICATION NUMBER: PCT/US99/21547  
 PRIOR FILING DATE: 1999-09-15  
 PRIOR APPLICATION NUMBER: PCT/US99/23089  
 PRIOR FILING DATE: 1999-10-05  
 PRIOR APPLICATION NUMBER: PCT/US99/28214  
 PRIOR FILING DATE: 1999-11-29  
 PRIOR APPLICATION NUMBER: PCT/US99/28313  
 PRIOR FILING DATE: 1999-11-30  
 PRIOR APPLICATION NUMBER: PCT/US99/28564  
 PRIOR FILING DATE: 1999-12-02  
 PRIOR APPLICATION NUMBER: PCT/US99/28565  
 PRIOR FILING DATE: 1999-12-02  
 PRIOR APPLICATION NUMBER: PCT/US99/30095  
 PRIOR FILING DATE: 1999-12-16  
 PRIOR APPLICATION NUMBER: PCT/US99/30911  
 PRIOR FILING DATE: 1999-12-20  
 PRIOR APPLICATION NUMBER: PCT/US99/30999  
 PRIOR FILING DATE: 1999-12-20  
 PRIOR APPLICATION NUMBER: PCT/US00/00219  
 PRIOR FILING DATE: 2000-01-05  
 NUMBER OF SEQ ID NOS: 423  
 SEQ ID NO 28  
 LENGTH: 660  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-09-907-794A-28  
 Query Match 10.2%; Score 320; DB 4; Length 660;  
 Best Local Similarity 22.4%; Pred. No. 7e-15;  
 Matches 140; Conservative 87; Mismatches 216; Indels 182; Gaps 23;  
 13 LLLALGPVQV-----GCPSCGCSQQTVCCTARQGTTPRDPPTVGLYVF-----60  
 20 LLIISGLYSQVSKLLACPVCRCDR-NFYVCNRSITSPVLGIPEGVTVLYLHNQINNA 78

61 QY -----ENGITWLDASSFAGLFCQLQL 81  
 79 GFPAELHNVSHTVYLYGNQLDEFPMLPKNVRVLHLQENNIQTISRAALQQLKLEL 138  
 82 DLSQNIASRLP-----RLILDLSHNSLLALEPGI---LOTANVEARLA---GL 127  
 139 HLDNSISTVGVEDGAFREASLKLFLSKNHLSSVPVGLPVDLQELRVDENRIAVISM 198  
 128 GLQQLD-----EGLSRLNHLHDLDVSDNQLERVPVPIRGLRGLRL 169  
 199 AFQNLTSLERLIVDGNLLTNKGIAEGTSHLTKLKEFSIVRNSLSHPPDLPTH-LIRL 257  
 170 RIAGNTRIAQLRPEDLAGLALQELDVSNLSLQALPGDLSGLFPRIRLILAAARNPNCVC 229  
 258 YLQDN-QINHIPLTAFSNLRKLERLDISNNQLRMLTQGVFDNLSNLKQLTARNNPFDC 316  
 230 PLSWFGPVVRESHVTLASPEETRCHFPKNAKRLLELDYADFGCPATTTATVPTTRV 289  
 317 SIKWTEWLKYPSSL-NVRGFMCOGPEQVGMARELNMLLSCP--TTTPGLPLFTP- 372  
 290 VREPTALSSSLAPTWLSPTATEAPSPSTAPPTVGPVQPQDCPPSTCLNGTCHLGT 349  
 373 -----APST---ASPTTPTLS-IPNP-----S 392  
 350 RHHLACLPCEGTGLYCESQMGQGTTPPTP-----VTTPRPSRLTIGIEP 395  
 393 RSY-----TPPTTTSKLTIPDWDGGRVTPPISERIQLSIHF 431  
 396 VSPTSRLVQLORYLOGSSVQLRSLRSLTYRNLSPDKRLVTLRLPASLAHY-IVTQLRPA 454  
 432 VNTSISQVSWLSLFTVMAYKLTVMKMGHSLVGG-----IVQERIVSGEKOHLVLNLEPS 487  
 455 TYSVCVMPGRCRVPGEGBEA-CGEAHTPPA-----VHSNHAPVTQAREGNLPLLIAPA 506  
 488 TYRICLVPLDAPNRYAVEDTICSEATTHASYLNGSNTASSHEQTTSMSGS-PFLLAGL 546  
 507 LAAVLLAALAAVGAAYC---VRRGR 528  
 547 IGGAVIFVLVLLSVFCVWHMKGR 571  
 RESULT 8  
 US-09-905-125A-28  
 ; Sequence 28, Application US/09905125A  
 ; Patent No. 6664376  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Genentech, Inc.  
 ; APPLICANT: Ashkenazi, Avi  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Eaton, Dan L.  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Filvaroff, Ellen  
 ; APPLICANT: Fong, Sherman  
 ; APPLICANT: Gao, Wei-Qiang  
 ; APPLICANT: Gerber, Hanspeter  
 ; APPLICANT: Gerritsen, Mary E.  
 ; APPLICANT: Goddard, A.  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, Christopher J.  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Hillan, Kenneth, J.  
 ; APPLICANT: Kljavin, Ivar J.  
 ; APPLICANT: Mather, Jennie P.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Paoni, Nicholas F.  
 ; APPLICANT: Roy, Margaret Ann  
 ; APPLICANT: Stewart, Timothy A.  
 ; APPLICANT: Tumas, Daniel  
 ; APPLICANT: Williams, P. Mickey  
 ; APPLICANT: Wood, William, I.  
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic



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; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905/125A
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
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; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 28
; LENGTH: 660
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-905-125A-28

Query Match      10.2%; Score 320; DB 4; Length 660;
Best Local Similarity 22.4%; Pred. No. 7e-15;
Matches 140; Conservative 87; Mismatches 216; Indels 182; Gaps 23;

Qy 13 LLLALGPVGQ-----GCPSPGCCSQPQTVFCTARQGTTPRDPDPDTVGLVVF----- 60
Db 20 LIISLGLYSQVSKLIACPSVRCRDR-NFYVCNERSLTSVPLGIPGEGVTVLVHNNQINNA 78
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Db 139 HLDNSISITGVGEDGAPREAISSLKLLFLSKHLSVPGVLPVDLQELRVDSNRIAVISDM 198
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Qy 170 RLAGNTRIAQLRPEDLAGLAALQELDVSNLSIQALPGDLSGLFPRRLRLAARPNPNCVC 229
Db 258 YLQDN-QINHPIPLAFSNLRLKLERLIDSNQQLRMLTQGVFDNLNLKQLTARNPWFCD 316
Qy 230 FLSWFGPWVRESHTVLTASPEETRCHFFPPKNAGRLLELDYADFQCPATTTTATVPTTRPV 289
Db 317 SIKWVTEWLKIPSSL-NVRFGMCQGPQVRGMVARELNNLLSCP--TTTPGLPLPTFP- 372
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Db 393 RSY-----TPPTTTSKLTPTIPDWDGRERVTPPISERTQLSHF 431
Qy 396 VSPTSLRVGLQRYLQSSVOLRSRLRYRLNSGDPKRLVTLRLPASLAAY-TVTQLRPNA 454
Db 432 VNDTSIQVSWLSLFTVMAYKLTVMKMGHSLVGG-----IVQERIVSGEKQHLNLEPRS 487
Qy 455 TYSVCVMPLGPGRVPEGEAA-CGEAHTPPA-----VHSNHAPVTQAREGNLPLLIAPA 506
Db 488 TYRCLVPLDAFNRYRAVEDTICSEATTHASLYNNGSNTASSHEQTTSMSGS-PFLLAGL 546
Qy 507 LAAVLLAALAAGVAAAYC---VRRGR 528
Db 547 IGGNAVIFVLVLLSVFCVCHMKGR 571

RESULT 9
US-09-902-775A-28
; Sequence 28, Application US/09902775A
; Patent No. 6686451
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Guney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,775A
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
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;; PRIOR FILING DATE: 1999-10-05  
;; PRIOR APPLICATION NUMBER: PCT/US99/28214  
;; PRIOR FILING DATE: 1999-11-29  
;; PRIOR APPLICATION NUMBER: PCT/US99/28313  
;; PRIOR FILING DATE: 1999-11-30  
;; PRIOR APPLICATION NUMBER: PCT/US99/28564  
;; PRIOR FILING DATE: 1999-12-02  
;; PRIOR APPLICATION NUMBER: PCT/US99/28565  
;; PRIOR FILING DATE: 1999-12-02  
;; PRIOR APPLICATION NUMBER: PCT/US99/30095  
;; PRIOR FILING DATE: 1999-12-16  
;; PRIOR APPLICATION NUMBER: PCT/US99/30911  
;; PRIOR FILING DATE: 1999-12-20  
;; PRIOR APPLICATION NUMBER: PCT/US99/30999  
;; PRIOR FILING DATE: 1999-12-20  
;; PRIOR APPLICATION NUMBER: PCT/US00/00219  
;; PRIOR FILING DATE: 2000-01-05  
;; NUMBER OF SEQ ID NOS: 423  
;; SEQ ID NO 28  
;; LENGTH: 660  
;; TYPE: PRT  
;; ORGANISM: Homo sapiens  
US-09-902-775A-28

Query Match 10.2%; Score 320; DB 4; Length 660;  
Best Local Similarity 22.4%; Pred. No. 7e-15;  
Matches 140; Conservative 87; Mismatches 216; Indels 182; Gaps 23;  
  
QY 13 LLLALGPVQV-----GCPGSCCQSQPTVFCTARQCTTVPDVPPTVGLVYF----- 60  
Db 20 LIISLGLYSQVSKLIACPSVCRDR-NFYVCNERSUTSVPLGIPEGTVLYLHNNQINNA 78  
QY 61 -----ENGITMLDASSFAGLPGLQLL 81  
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Db 432 VNDTSIQVSWLSLFTVMAYKLTWVKMGHSLVG-----IVQERIVSGEKQHLVLNLEPRS 487  
QY 455 TYSVCVMPGLPGHVPGEBA-CQEAHTPPA-----VHSNHPVTOAREGNLPLLIAPA 506  
Db 488 TYRILVPLDAFNRYAVEDTICSEATTHASLYNNGSNNTASSHQTTTSHMGS-PFLIAGL 546  
QY 507 LAAVLLAALAAVGAAYC---VRRGR 528  
Db 547 IGGAVIFVLVLLSVFCWHMKGR 571

RESULT 10  
US-09-906-700-28  
; Sequence 28, Application US/09906700  
; Patent No. 6723535  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: 10466-14  
; CURRENT APPLICATION NUMBER: US/09/906,700  
; CURRENT FILING DATE: 2000-09-18  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: US 60/143,048  
; PRIOR FILING DATE: 1999-07-07  
; PRIOR APPLICATION NUMBER: US 60/145,698  
; PRIOR FILING DATE: 1999-07-26  
; PRIOR APPLICATION NUMBER: US 60/146,222  
; PRIOR FILING DATE: 1999-07-28  
; PRIOR APPLICATION NUMBER: PCT/US99/20594  
; PRIOR FILING DATE: 1999-09-08  
; PRIOR APPLICATION NUMBER: PCT/US99/20944  
; PRIOR FILING DATE: 1999-09-13  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/21547  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/23089  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: PCT/US99/28214  
; PRIOR FILING DATE: 1999-11-29  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: 1999-11-30  
; PRIOR APPLICATION NUMBER: PCT/US99/28564  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/28565  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: 1999-12-16  
; PRIOR APPLICATION NUMBER: PCT/US99/30911  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US99/30999  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US00/00219  
; NUMBER OF SEQ ID NOS: 423  
; SEQ ID NO 28  
; LENGTH: 660  
; TYPE: PRT

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; ORGANISM: Homo sapiens
US-09-906-700-28

Query Match      10.2%; Score 320; DB 4; Length 660;
Best Local Similarity 22.4%; Pred. No. 7e-15;
Matches 140; Conservative 87; Mismatches 216; Indels 182; Gaps 23;

Qy 13 LLLALPGVQ-----GCPSGCQSQPQTVFCRTARQGTTPRDVPPDTVGLYVF----- 60
Db 20 LIISLGLYSQVSKLLACPSVCRCDR-NFVYCNERSLTSVPLGIGEGVTVLVHNNQINNA 78
Qy 61 -----ENGITWLDASSFAGLPGLQLL 81
Db 79 GFPAELHNQSVHTVLYGNQLDEPFMNLKPNVRVLHLQENNIQTIISRAALAKLLEEL 138
Qy 82 DLSQNOQIASLRP-----RLLLDLSHNSLLALEPGI---LDTANVEALRLA---GL 127
Db 139 HLDNDSISTVGEDGAFREAIISKLLFLSKNHLSSVPVGLPVDLQELRVNDRIAVISDM 198
Qy 128 GLQQLD-----EGLFSRLRNHLHDLDVSDNQLERVPVIRGLRGLTRL 169
Db 199 AFONLTSLERLIVDGNLLTNKGIAEGTFSHLTKLKEFSIVRNSLSLHPPDPLPGTH-LIRL 257
Qy 170 RLAGNTRIAQLRPEDLAGLAALQELDVSNLSIQLPGLSLFPRRLLLAAARNPENCVC 229
Db 258 YLDN-QINHIPLTAFSLNRLKRLERLDISNNQLRMLTQGVFNLSNKLQLTARNPWFCD 316
Qy 230 PLSMFGPVRVSHVTLASPEETRCHFPKPNAGRLLELDYADFGCPATTTTATVPTTRPV 289
Db 317 SIKWTEMLKVIPTSSL-NVRGFMCGQPGVQGMVARELNMLLSCP--TTTPGLPLFTP- 372
Qy 290 VREPTALSSSLAPTWLSTAPATEAPSPSTAPPTVGVPPQDCPPSTCLNGTCHLGT 349
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Qy 350 RHILACLCEGFTGLYCSQMGQTRPSPTP-----VTPRPPRSLTLGTGP 395
Db 393 RSY-----TPPTTTTSKLTPIPDWGRERVTPPISERIQLSIHF 431
Qy 396 VSPTSRLRYGLORYLQSSVQLRSRLTYRNLSGDPDKRLVTLRLPASLAAY-TVTQLRPNA 454
Db 432 VNDTSIQVSWLSLFTVMAYKLTVMKMGHSLVG-----IVQERIVSGEKQHLNLEPRS 487
Qy 455 TVSCVCMPLGPRVPEGEA-CGEANTPPA-----VHSNHPVTOAREGNLPLLIAPA 506
Db 488 TYRICLVLDFPNYRAVEDTTCSEATTTHASYLNNGSNNTASSHEQTTSMSG-S-PFLLAGL 546
Qy 507 LAAVLLAALAAVGAAYC---VRRGR 528
Db 547 IGGAVIFVLVLLSVFCHMHKKGR 571

RESULT 11
US-09-903-603A-28
; Sequence 28, Application US/09903603A
; Patent No. 6767995
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
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QY 507 LAAVLLAALAAVGAAYC---VRRGR 528  
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RESULT 12

US-09-904-920A-28  
; Sequence 28, Application US/09904920A  
; Patent No. 6806352

GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: 10466-14  
; CURRENT APPLICATION NUMBER: US/09/904,920A  
; CURRENT FILING DATE: 2001-07-13  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: US 60/143,048  
; PRIOR FILING DATE: 1999-07-07  
; PRIOR APPLICATION NUMBER: US 60/145,698  
; PRIOR FILING DATE: 1999-07-26  
; PRIOR APPLICATION NUMBER: US 60/146,222

; PRIOR FILING DATE: 1999-07-28  
; PRIOR APPLICATION NUMBER: PCT/US99/20594  
; PRIOR FILING DATE: 1999-09-08  
; PRIOR APPLICATION NUMBER: PCT/US99/20944  
; PRIOR FILING DATE: 1999-09-13  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/21547  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/23089  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: PCT/US99/28214  
; PRIOR FILING DATE: 1999-11-29  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: 1999-11-30  
; PRIOR APPLICATION NUMBER: PCT/US99/28564  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/28565  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: 1999-12-16  
; PRIOR APPLICATION NUMBER: PCT/US99/30911  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US99/30999  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US00/00219  
; PRIOR FILING DATE: 2000-01-05  
; NUMBER OF SEQ ID NOS: 423  
; SEQ ID NO 28  
; LENGTH: 660  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-904-920A-28

Query Match 10.2%; Score 320; DB 4; Length 660;

Best Local Similarity 22.4%; Pred. No. 7e-15;  
Matches 140; Conservative 87; Mismatches 216; Indels 182; Gaps 23;

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QY 82 DLSQNLASRLP-----RLLLDLSHSLLALEPGI---LDTANVEARLA---GL 127  
Db 139 HLDNNSISTVGVEDGAFREAISSKLFLSKHLSVVPVGLPVDLOELRVDENRIVISDM 198  
QY 128 GLQQLD-----EGLFSRLNHLHDLDVSDNQLERVPVIRGLRGLTRL 169  
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QY 290 VREPTALSSSLAPTWSLPTAPATEAPSPSTAPPTVGPVQPCDPPSTCLNGGTC 349  
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QY 350 RHLACLCEGFTGLYCESQMGQTRPSPTP-----VTPRPPSLTIGIEP 395  
Db 393 RSY-----TPPTTSLKPTIPDWGGRVTPPISERIQLSHF 431  
QY 396 VSPTSRLVGLQRYLOGSSVOLRSRLTYRNLSPDKRLVTLRLPASLAEY-TVTQLRPA 454  
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QY 455 TYSVCMPLGPRVPEGEA-CGEAHTPPA-----VHSNHAPVTOAREGNLPLLIAPA 506  
Db 488 TYRICLVPLDAFNRAVEDTICSEATTHASVYLNNGSNSTASSHEQTTSHSMGS-PFLLAGL 546  
QY 507 LAAVLLAALAAGVGAAYC---VRRGR 528  
Db 547 IGGAVIFVLVLLSVFCWHMHHKGR 571

RESULT 13  
US-09-949-016-6843  
; Sequence 6843, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 6843  
; LENGTH: 660  
; TYPE: PRT  
; ORGANISM: Human  
US-09-949-016-6843

Query Match 10.2%; Score 320; DB 4; Length 660;  
Best Local Similarity 22.4%; Pred. No. 7e-15;  
Matches 140; Conservative 87; Mismatches 216; Indels 182; Gaps 23;

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QY 82 DLSQNOIASLRLP-----RLLLDLSHNSLLALEPGI---LDTANVEALRLA---GL 127  
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QY 507 LAAVLLAALAAGVGAAYC---VRRGR 528  
Db 547 IGGAVIFVLVLLSVFCWHMHHKGR 571

RESULT 14  
US-09-909-064-28  
; Sequence 28, Application US/09909064  
; Patent No. 6818449  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnuyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; ACIDS  
; FILE REFERENCE: 10466-14  
; CURRENT APPLICATION NUMBER: US/09/909,064  
; CURRENT FILING DATE: 2001-07-18  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: US 60/143,048  
; PRIOR FILING DATE: 1999-07-07  
; PRIOR APPLICATION NUMBER: US 60/145,698  
; PRIOR FILING DATE: 1999-07-26  
; PRIOR APPLICATION NUMBER: US 60/146,222  
; PRIOR FILING DATE: 1999-07-28  
; PRIOR APPLICATION NUMBER: PCT/US99/20594  
; PRIOR FILING DATE: 1999-09-08  
; PRIOR APPLICATION NUMBER: PCT/US99/20944  
; PRIOR FILING DATE: 1999-09-13  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/21547  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/23089  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: PCT/US99/28214  
; PRIOR FILING DATE: 1999-11-29  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: 1999-11-30  
; PRIOR APPLICATION NUMBER: PCT/US99/28564  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/28565  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/30095

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; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 28
; LENGTH: 660
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-909-064-28

Query Match      10.2%; Score 320; DB 4; Length 660;
Best Local Similarity 22.4%; Pred. No. 7e-15;
Matches 140; Conservative 87; Mismatches 216; Indels 182; Gaps 23;

QY 13 LLLALGPGVQ-----GCPSGCQSQPQTVFCTARQGTTPROVPPPTVGLYVF-----60
Db 20 LIISLGLYSQVSKLLACPSVCRDR-NFYVCNERSLTSVPLGIPGEGTVLYLHNNQINNA 78
QY 61 -----ENGITMLDASSFAGLPGQLL 81
Db 79 GPFAELHNVOSVHTVLYNQDLDEFMNLPKXVRVLHLQENNIQTISRALAQLLKEEL 138
QY 82 DLSONQIASLRP-----RLLLDLSHNSLLALEPGI---LDTANVEALRLA---GL 127
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QY 128 GLQOLD-----EGLFSLRLNHLVDVSDNQLERVPVIRGLRGLRL 169
Db 199 AFQNLTSLERLIVDGNLLTNKGIAEGTFSHLTKLKEFSIVRNSLSLHPPDPLPGTH-LIRL 257
QY 170 RLAGNTRIAQLRPEDLAGLAALQELQVSNLSLQALPGDLGSLFPRLRLAAARNPENCVC 229
Db 258 YLQDN-QINHIPLTAFSNLRKLERLDIINNQLRMLTQGVFDNLSNLKQLTARNNPFCD 316
QY 230 PLSWFGPVRSHVTLASPEETRCHFPKKNAGRLLELDYADFGCPATTTTATVPTTRPV 289
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QY 396 VSPTSRLVRGLQRYLOGSSVOLRSRLTRYNLSPDKRLVTLRLPASLAEY-TVTQLRPNA 454
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QY 455 TVSVCMPLPGKVRPGEERA-CGEAHTPPA-----VHSNHAAPTQAREGNLPLLIAPA 506
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QY 507 LAVLLAALAAVCAVC---VRRGR 528
Db 547 IGGAVIFVLVLLSVFCWHMKGR 571

RESULT 15
US-09-905-381A-28
; Sequence 28, Application US/09905381A
; Patent No. 6818746
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,381A
; CURRENT FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 28
; LENGTH: 660
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-905-381A-28

Query Match      10.2%; Score 320; DB 4; Length 660;
Best Local Similarity 22.4%; Pred. No. 7e-15;
Matches 140; Conservative 87; Mismatches 216; Indels 182; Gaps 23;

QY 13 LLLALGPGVQ-----GCPSGCQSQPQTVFCTARQGTTPROVPPPTVGLYVF-----60
Db 20 LIISLGLYSQVSKLLACPSVCRDR-NFYVCNERSLTSVPLGIPGEGTVLYLHNNQINNA 78
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Qy 61 -----ENGITMLDASSFAGLPGLQLL 81
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Db 139 HLDNDSISTVGVEDGAFREATSLKLLFLSKHLSVPVGLPVDLQELRVDENRIAVISDM 198
Qy 128 GLQQLD-----EGLFSRLRNHLHDLDVSDNQLERVPVIRGLRGLTRL 169
Db 199 AFONLTSLERLIVDGNLLTNKGIAGTFSHLTKLKEFSIVRNSLSLHPPDPLGTH-LIRL 257
Qy 170 PLAGNTRIAQLRPEDLAGIALQELDVSNLSLOALPGDLSGLFPRLRLAAARNPFNCVC 229
Db 258 YLODN-QINHIPLTAFAFSLNRKLERLDISNNQLRMLTOGVFDNLSNLKOLTARNNPFWCDC 316
Qy 230 PLSWFGPMVRESHVTLASPEETRCHFPKNAGRLLLELDYADFGCPATTTTATVPTTRPV 289
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Qy 396 VSPTSLRVGLQRYLQGSVOLRLSLTYRNLSGDPDKRLVTLRLPASLAAY-TVTQLRENA 454
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Qy 455 TYSVCVMPLGFGRVPEGBEA-CGEAHTPPA-----VHSNHAPVTOAREGNLPLLIAPA 506
Db 488 TYRICLVPLDAFNRYRAVEDTICSEATTHASYLNNGSNTASSHEQTTSMSGSP-PLLAGL 546
Qy 507 LAAVLLAALAAVGAAYC---VRRGR 528
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Job time : 69 secs



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US-10-230-414-104

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103	3135	100.0	598	14	US-10-218-765-104	Sequence 104, App	176	3083.5	98.4	673	10	US-09-991-854-52	Sequence 52, Appl
104	3135	100.0	598	14	US-10-219-063-104	Sequence 104, App	177	3083.5	98.4	673	10	US-09-997-628-52	Sequence 52, Appl
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113	3135	100.0	598	14	US-10-219-525-104	Sequence 104, App	186	3083.5	98.4	673	10	US-09-993-748-52	Sequence 52, Appl
114	3135	100.0	598	14	US-10-219-526-104	Sequence 104, App	187	3083.5	98.4	673	10	US-09-990-439-52	Sequence 52, Appl
115	3135	100.0	598	14	US-10-219-530-104	Sequence 104, App	188	3083.5	98.4	673	10	US-09-990-439-52	Sequence 52, Appl
116	3135	100.0	598	14	US-10-219-531-104	Sequence 104, App	189	3083.5	98.4	673	10	US-09-989-328-52	Sequence 52, Appl
117	3135	100.0	598	14	US-10-219-532-104	Sequence 104, App	190	3083.5	98.4	673	10	US-09-993-583-52	Sequence 52, Appl
118	3135	100.0	598	14	US-10-219-533-104	Sequence 104, App	191	3083.5	98.4	673	10	US-09-941-992-52	Sequence 52, Appl
119	3135	100.0	598	14	US-10-230-437-104	Sequence 104, App	192	3083.5	98.4	673	10	US-09-992-521-52	Sequence 52, Appl
120	3135	100.0	598	14	US-10-232-228-104	Sequence 104, App	193	3083.5	98.4	673	10	US-09-997-333-52	Sequence 52, Appl
121	3135	100.0	598	15	US-10-429-667-69	Sequence 69, Appl	194	3083.5	98.4	673	10	US-09-997-384-52	Sequence 52, Appl
122	3135	100.0	598	15	US-10-232-226-104	Sequence 104, App	195	3083.5	98.4	673	10	US-09-998-041-52	Sequence 52, Appl
123	3135	100.0	598	15	US-10-230-130-104	Sequence 104, App	196	3083.5	98.4	673	10	US-09-997-585-52	Sequence 52, Appl
124	3135	100.0	598	15	US-10-219-535-104	Sequence 104, App	197	3083.5	98.4	673	10	US-09-997-614-52	Sequence 52, Appl
125	3135	100.0	598	15	US-10-232-230-104	Sequence 104, App	198	3083.5	98.4	673	10	US-09-989-862-52	Sequence 52, Appl
126	3135	100.0	598	15	US-10-677-471-69	Sequence 69, Appl	199	3083.5	98.4	673	10	US-09-997-529-52	Sequence 52, Appl
127	3135	100.0	598	15	US-10-677-669-69	Sequence 69, Appl	200	3083.5	98.4	673	10	US-09-989-725-52	Sequence 52, Appl
128	3135	100.0	598	15	US-10-119-480-104	Sequence 104, App	201	3083.5	98.4	673	10	US-09-991-150-52	Sequence 52, Appl
129	3135	100.0	598	16	US-10-901-400-69	Sequence 69, Appl	202	3083.5	98.4	673	10	US-09-997-641-52	Sequence 52, Appl
130	3135	100.0	598	17	US-10-858-981-69	Sequence 69, Appl	203	3083.5	98.4	673	10	US-09-989-733-52	Sequence 52, Appl
131	3135	100.0	598	17	US-10-899-671-69	Sequence 69, Appl	204	3083.5	98.4	673	10	US-09-992-643-52	Sequence 52, Appl
132	3135	100.0	598	17	US-10-943-353-69	Sequence 69, Appl	205	3083.5	98.4	673	13	US-10-006-867-16	Sequence 16, Appl
133	3083.5	98.4	673	9	US-09-989-732-52	Sequence 52, Appl	206	3083.5	98.4	673	13	US-10-063-547-16	Sequence 16, Appl
134	3083.5	98.4	673	9	US-09-782-980-59	Sequence 59, Appl	207	3083.5	98.4	673	13	US-10-063-551-16	Sequence 16, Appl
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137	3083.5	98.4	673	9	US-09-989-727-52	Sequence 52, Appl	210	3083.5	98.4	673	14	US-10-063-513-16	Sequence 16, Appl
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148	3083.5	98.4	673	9	US-09-989-735-52	Sequence 52, Appl	221	3083.5	98.4	673	14	US-10-063-555-16	Sequence 16, Appl
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151	3083.5	98.4	673	9	US-09-989-730-52	Sequence 52, Appl	224	3083.5	98.4	673	14	US-10-063-538-16	Sequence 16, Appl
152	3083.5	98.4	673	9	US-09-990-436-52	Sequence 52, Appl	225	3083.5	98.4	673	14	US-10-063-599-16	Sequence 16, Appl
153	3083.5	98.4	673	9	US-09-993-697-52	Sequence 52, Appl	226	3083.5	98.4	673	14	US-10-063-595-16	Sequence 16, Appl
154	3083.5	98.4	673	10	US-09-989-734-52	Sequence 52, Appl	227	3083.5	98.4	673	14	US-10-063-580-16	Sequence 16, Appl
155	3083.5	98.4	673	10	US-09-997-653-52	Sequence 52, Appl	228	3083.5	98.4	673	14	US-10-063-557-16	Sequence 16, Appl
156	3083.5	98.4	673	10	US-09-989-724-52	Sequence 52, Appl	229	3083.5	98.4	673	14	US-10-063-585-16	Sequence 16, Appl
157	3083.5	98.4	673	10	US-09-989-728-52	Sequence 52, Appl	230	3083.5	98.4	673	14	US-10-063-588-16	Sequence 16, Appl
158	3083.5	98.4	673	10	US-09-990-441-52	Sequence 52, Appl	231	3083.5	98.4	673	14	US-10-063-735-16	Sequence 16, Appl
159	3083.5	98.4	673	10	US-09-993-667-52	Sequence 52, Appl	232	3083.5	98.4	673	14	US-10-063-526-16	Sequence 16, Appl

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238	3083.5	98.4	673	14	US-10-063-669-16	Sequence 16, Appl	311	3083.5	98.4	673	14	US-10-063-597-16	Sequence 16, Appl
239	3083.5	98.4	673	14	US-10-063-670-16	Sequence 16, Appl	312	3083.5	98.4	673	14	US-10-063-602-16	Sequence 16, Appl
240	3083.5	98.4	673	14	US-10-063-671-16	Sequence 16, Appl	313	3083.5	98.4	673	14	US-10-063-606-16	Sequence 16, Appl
241	3083.5	98.4	673	14	US-10-063-674-16	Sequence 16, Appl	314	3083.5	98.4	673	14	US-10-063-609-16	Sequence 16, Appl
242	3083.5	98.4	673	14	US-10-063-675-16	Sequence 16, Appl	315	3083.5	98.4	673	14	US-10-063-611-16	Sequence 16, Appl
243	3083.5	98.4	673	14	US-10-063-676-16	Sequence 16, Appl	316	3083.5	98.4	673	14	US-10-063-614-16	Sequence 16, Appl
244	3083.5	98.4	673	14	US-10-063-686-16	Sequence 16, Appl	317	3083.5	98.4	673	14	US-10-063-639-16	Sequence 16, Appl
245	3083.5	98.4	673	14	US-10-063-689-16	Sequence 16, Appl	318	3083.5	98.4	673	14	US-10-063-643-16	Sequence 16, Appl
246	3083.5	98.4	673	14	US-10-063-692-16	Sequence 16, Appl	319	3083.5	98.4	673	14	US-10-063-646-16	Sequence 16, Appl
247	3083.5	98.4	673	14	US-10-063-693-16	Sequence 16, Appl	320	3083.5	98.4	673	14	US-10-063-651-16	Sequence 16, Appl
248	3083.5	98.4	673	14	US-10-063-694-16	Sequence 16, Appl	321	3083.5	98.4	673	14	US-10-063-653-16	Sequence 16, Appl
249	3083.5	98.4	673	14	US-10-063-698-16	Sequence 16, Appl	322	3083.5	98.4	673	14	US-10-063-660-16	Sequence 16, Appl
250	3083.5	98.4	673	14	US-10-063-699-16	Sequence 16, Appl	323	3083.5	98.4	673	14	US-10-063-665-16	Sequence 16, Appl
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252	3083.5	98.4	673	14	US-10-063-705-16	Sequence 16, Appl	325	3083.5	98.4	673	14	US-10-063-536-16	Sequence 16, Appl
253	3083.5	98.4	673	14	US-10-063-707-16	Sequence 16, Appl	326	3083.5	98.4	673	14	US-10-063-562-16	Sequence 16, Appl
254	3083.5	98.4	673	14	US-10-063-709-16	Sequence 16, Appl	327	3083.5	98.4	673	14	US-10-063-638-16	Sequence 16, Appl
255	3083.5	98.4	673	14	US-10-063-713-16	Sequence 16, Appl	328	3083.5	98.4	673	14	US-10-063-666-16	Sequence 16, Appl
256	3083.5	98.4	673	14	US-10-063-724-16	Sequence 16, Appl	329	3083.5	98.4	673	14	US-10-063-672-16	Sequence 16, Appl
257	3083.5	98.4	673	14	US-10-063-727-16	Sequence 16, Appl	330	3083.5	98.4	673	14	US-10-063-682-16	Sequence 16, Appl
258	3083.5	98.4	673	14	US-10-063-730-16	Sequence 16, Appl	331	3083.5	98.4	673	14	US-10-063-721-16	Sequence 16, Appl
259	3083.5	98.4	673	14	US-10-063-734-16	Sequence 16, Appl	332	3083.5	98.4	673	14	US-10-063-723-16	Sequence





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684	330	10.5	653	14	US-10-145-827-438	Sequence 438, App	757	330	10.5	653	14	US-10-145-874-438	Sequence 438, App
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687	330	10.5	653	14	US-10-145-877-438	Sequence 438, App	760	330	10.5	653	14	US-10-152-374-438	Sequence 438, App
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689	330	10.5	653	14	US-10-146-787-438	Sequence 438, App	762	330	10.5	653	14	US-10-152-377-438	Sequence 438, App
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## ALIGNMENTS

## RESULT 1

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; Sequence 69, Application US/09866028
; Patent No. US20020058309A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
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; APPLICANT: Tamas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: ACIDS ENCODING THE SAME
; FILE REFERENCE: P2548PIC1
; CURRENT APPLICATION NUMBER: US/09/866,028
; CURRENT FILING DATE: 2001-05-25
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 69
; LENGTH: 598
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-866-028-69
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Query Match 100.0%; Score 3135; DB 9; Length 598;
Best Local Similarity 100.0%; Pred. No. 1.6e-194;
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 181 RPEDLAGLAAALQELDVSNLSLQALPGDLISGLFPRLRLLLAAARNPNCVPLSWFGPWVRE 240
QY 241 SHVTLASPEETRCHPPPNAGRLLELDYADFGCPATTTTATVTRPVVREPTALSSSL 300
Db 241 SHVTLASPEETRCHPPPNAGRLLELDYADFGCPATTTTATVTRPVVREPTALSSSL 300
QY 301 APTWLSPTAPATEAPSPSTAPPTVGPVPQDQCPSPSTCLNGGTCHLGRHHLACLCPGEG 360
Db 301 APTWLSPTAPATEAPSPSTAPPTVGPVPQDQCPSPSTCLNGGTCHLGRHHLACLCPGEG 360
QY 361 FTGLYCESQMGQGRPSPTVTPRPRSLTLGIEPVSPTSURVGLQRYLQSSVQLRSRLR 420
Db 361 FTGLYCESQMGQGRPSPTVTPRPRSLTLGIEPVSPTSURVGLQRYLQSSVQLRSRLR 420
QY 421 LTYRNLSPDKRLVTLRLPASLAEBYTVTLBPNTATYSVCVMPGLGPRVPEGEAEAGHAHT 480
Db 421 LTYRNLSPDKRLVTLRLPASLAEBYTVTLBPNTATYSVCVMPGLGPRVPEGEAEAGHAHT 480
QY 481 PPAVHSHNAPVTQAREGNLPLLIAPALAAVLLAALAAVGAAYCVRRGRAMAAAAQDKGOV 540
Db 481 PPAVHSHNAPVTQAREGNLPLLIAPALAAVLLAALAAVGAAYCVRRGRAMAAAAQDKGOV 540
QY 541 GPGAGPLEGKVPLEPGPKATGGGEGALPSGSECEVPLMGFTGPGQLQSPPLHAKPYI 598
Db 541 GPGAGPLEGKVPLEPGPKATGGGEGALPSGSECEVPLMGFTGPGQLQSPPLHAKPYI 598

RESULT 2
US-09-944-449-69
; Sequence 69, Application US/09944449
; Patent No. US20020102647A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Geritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,449
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
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; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020102647A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020102647A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 69
; LENGTH: 598
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-449-69
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Query Match 100.0%; Score 3135; DB 9; Length 598;  
Best Local Similarity 100.0%; Pred. No. 1.6e-194;  
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MCSRVPLLLALLLALGPGVCGSCGCSOPQTVFCTARQTTVPDRVDPDTVGLYVF 60  
DB 1 MCSRVPLLLALLLALGPGVCGSCGCSOPQTVFCTARQTTVPDRVDPDTVGLYVF 60

QY 61 ENGITMDASSFAGLPGQLLDLSONQIASRLPRLLLDLSHNSLLALEPGLDTPANVE 120  
DB 61 ENGITMDASSFAGLPGQLLDLSONQIASRLPRLLLDLSHNSLLALEPGLDTPANVE 120

QY 121 ALRLAGLQOIDEGLFSLRLNHLVDSDNQLRVPVIRGLRGTRLRAGNTRIAQL 180  
DB 121 ALRLAGLQOIDEGLFSLRLNHLVDSDNQLRVPVIRGLRGTRLRAGNTRIAQL 180

QY 181 RPEDLAGLAAQLDVLNSLSQALPGDLSGLPRRLRLAAARNPNCVCLPFWGFWVRE 240  
DB 181 RPEDLAGLAAQLDVLNSLSQALPGDLSGLPRRLRLAAARNPNCVCLPFWGFWVRE 240

QY 241 SHVTLASPETRCHFPKKNAGRLLELDYADFQCPATTTTATVPTTRPVVREPTALSSSL 300  
DB 241 SHVTLASPETRCHFPKKNAGRLLELDYADFQCPATTTTATVPTTRPVVREPTALSSSL 300

QY 301 APTWLSPTAPATEAPSPSTAPTPTGVPVQDQCPSTCLNGTCHLGRHHLACLCPRG 360  
DB 301 APTWLSPTAPATEAPSPSTAPTPTGVPVQDQCPSTCLNGTCHLGRHHLACLCPRG 360

QY 361 FTGLYCESOMGGTRSPPTVTPRPRSLTGLIEPVSPLRVGLQRYLQSSVQLRSRLR 420  
DB 361 FTGLYCESOMGGTRSPPTVTPRPRSLTGLIEPVSPLRVGLQRYLQSSVQLRSRLR 420

QY 421 LTYRNLSGDKRLVTLRLPASLAETVTLQRLNATYSVCWMLPGCRVPEGEACEAHT 480  
DB 421 LTYRNLSGDKRLVTLRLPASLAETVTLQRLNATYSVCWMLPGCRVPEGEACEAHT 480

QY 481 PPAVSHNAPVTOAREGNLPLLIAPALAAVLAALAAVGAAYCVRGRMAAAAQDKGV 540  
DB 481 PPAVSHNAPVTOAREGNLPLLIAPALAAVLAALAAVGAAYCVRGRMAAAAQDKGV 540

QY 541 GPGAGPLEGKVKVLEPGPKATEGGEALPGSCEVEPLMGFPGLQSPHAKPYI 598  
DB 541 GPGAGPLEGKVKVLEPGPKATEGGEALPGSCEVEPLMGFPGLQSPHAKPYI 598

RESULT 3  
US-09-944-457-69  
; Sequence 69, Application US/09944457  
; Patent No. US20020110859A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Botstein, David  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Kljavin, Ivar  
; APPLICANT: Napier, Mary  
; APPLICANT: Roy, Margaret  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Wood, William  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE REFERENCE: P2548P1C1  
; CURRENT APPLICATION NUMBER: US/09/944,457  
; CURRENT FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 09/866,028

; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/067,411  
; PRIOR FILING DATE: December 3, 1997  
; PRIOR APPLICATION NUMBER: 60/069,334  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,335  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,278  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,425  
; PRIOR FILING DATE: December 12, 1997  
; PRIOR APPLICATION NUMBER: 60/069,696  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,694  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,702  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,870  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/069,873  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/068,017  
; PRIOR FILING DATE: December 18, 1997  
; PRIOR APPLICATION NUMBER: 60/070,440  
; PRIOR FILING DATE: January 5, 1998  
; PRIOR APPLICATION NUMBER: 60/074,086  
; PRIOR FILING DATE: February 9, 1998  
; PRIOR APPLICATION NUMBER: 60/074,092  
; PRIOR FILING DATE: February 9, 1998  
; PRIOR APPLICATION NUMBER: 60/075,945  
; PRIOR FILING DATE: February 25, 1998  
; PRIOR APPLICATION NUMBER: 60/112,850  
; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 60/113,296  
; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 60/146,222  
; PRIOR FILING DATE: July 28, 1999  
; PRIOR APPLICATION NUMBER: PCT/US98/19330  
; PRIOR FILING DATE: September 16, 1998  
; PRIOR APPLICATION NUMBER: PCT/US98/25108  
; PRIOR FILING DATE: December 1, 1998  
; PRIOR APPLICATION NUMBER: 09/216,021  
; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 09/218,517  
; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 09/254,311  
; PRIOR FILING DATE: March 3, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/12252  
; PRIOR FILING DATE: June 22, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: September 15, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28409  
; PRIOR FILING DATE: No. US20020110859A1ember 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: No. US20020110859A1ember 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28301  
; PRIOR FILING DATE: December 1, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: December 16, 1999  
; PRIOR APPLICATION NUMBER: PCT/US00/03565  
; PRIOR FILING DATE: February 11, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: February 22, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/05841  
; PRIOR FILING DATE: March 2, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/08439  
; PRIOR FILING DATE: March 30, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/14042  
; PRIOR FILING DATE: May 22, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/20710  
; PRIOR FILING DATE: July 28, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/32678  
; PRIOR FILING DATE: December 1, 2000

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; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 69
; LENGTH: 598
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-457-69

Query Match      100.0%; Score 3135; DB 9; Length 598;
Best Local Similarity 100.0%; Pred. No. 1.6e-194;
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MCSRVPLLLPLLLLALPGVQGPCSGCQCQPQVFTCTARQGTTPRDVPPDTVGLYVF 60
Db 1 MCSRVPLLLPLLLLALPGVQGPCSGCQCQPQVFTCTARQGTTPRDVPPDTVGLYVF 60

Qy 61 ENGITMLDASSFAGLPGIQLLDLSONQIASLRLPRLLLDLSHNSLLALEPGILDTANVE 120
Db 61 ENGITMLDASSFAGLPGIQLLDLSONQIASLRLPRLLLDLSHNSLLALEPGILDTANVE 120

Qy 121 ALRLAGLQLODGLFSRLNHLHDLDVSDNQLERVPVIRGLRGLTRLRLAGNTRIAQL 180
Db 121 ALRLAGLQLODGLFSRLNHLHDLDVSDNQLERVPVIRGLRGLTRLRLAGNTRIAQL 180

Qy 181 RPEDIAGLALQELDVSNSLQALPGDLSGLFPRLLRLAAARNPFCVPLSWFGPWVRE 240
Db 181 RPEDIAGLALQELDVSNSLQALPGDLSGLFPRLLRLAAARNPFCVPLSWFGPWVRE 240

Qy 241 SHVTLASPEETRCHFPKKNAGRLLELDYADFGCPATTTTATVTPTRPVVREPTALSSSL 300
Db 241 SHVTLASPEETRCHFPKKNAGRLLELDYADFGCPATTTTATVTPTRPVVREPTALSSSL 300

Qy 301 APTWLSPTAPATEAPSPSTAPPTVGPVPQDCCPPSTCLNGGTCGLGTRHHLACLCPGEG 360
Db 301 APTWLSPTAPATEAPSPSTAPPTVGPVPQDCCPPSTCLNGGTCGLGTRHHLACLCPGEG 360

Qy 361 FTGLYCSQMGQGRTPSTPTVTPRPSRLTIGIPVSPTSIRVGLQRYLQSSVOLRSRLR 420
Db 361 FTGLYCSQMGQGRTPSTPTVTPRPSRLTIGIPVSPTSIRVGLQRYLQSSVOLRSRLR 420

Qy 421 LTYRNLSGPDRLVTLRLPASLAETVTLQRPNATYSVCVMPGLGPRVPEGEACGAHT 480
Db 421 LTYRNLSGPDRLVTLRLPASLAETVTLQRPNATYSVCVMPGLGPRVPEGEACGAHT 480

Qy 481 PPAVHSHNAPVTOAREGNLPLLIAPALAAVLLAALAAVGAAYCVRRGRGMAAAQDKGQV 540
Db 481 PPAVHSHNAPVTOAREGNLPLLIAPALAAVLLAALAAVGAAYCVRRGRGMAAAQDKGQV 540

Qy 541 GPGAGPLEGVKVPLEPGPKATEGGGEGALPSGSECEVPLMGFPQGLQSLPHAKPYI 598
Db 541 GPGAGPLEGVKVPLEPGPKATEGGGEGALPSGSECEVPLMGFPQGLQSLPHAKPYI 598

RESULT 4
US-09-944-862-69
; Sequence 69, Application US/09944862
; Patent No. US20020115145A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: ROY, Margaret
```

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; APPLICANT: Tamas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,862
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020115145A1 September 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020115145A1 September 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
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RESULT 5  
US-09-945-587-69  
; Sequence 69, Application US/09945587  
; Patent No. US20020127643A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Botstein, David  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerritsen, Mary  
; PRIOR FILING DATE: March 3, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/12252  
; PRIOR FILING DATE: June 22, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: September 15, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28409  
; PRIOR FILING DATE: No. US20020127643A1ember 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: No. US20020127643A1ember 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28301  
; PRIOR FILING DATE: December1, 1999

;; PRIOR APPLICATION NUMBER: PCT/US99/30095  
;; PRIOR FILING DATE: December 16, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US00/03565  
;; PRIOR FILING DATE: February 11, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/04414  
;; PRIOR FILING DATE: February 22, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/05841  
;; PRIOR FILING DATE: March 2, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/08439  
;; PRIOR FILING DATE: March 30, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/14042  
;; PRIOR FILING DATE: May 22, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/20710  
;; PRIOR FILING DATE: July 28, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/32678  
;; PRIOR FILING DATE: December 1, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US01/06520  
;; PRIOR FILING DATE: February 28, 2001  
;; NUMBER OF SEQ ID NOS: 120  
;; SEQ ID NO 69  
;; LENGTH: 598  
;; TYPE: PRT  
;; ORGANISM: Homo Sapien  
US-09-945-587-69

Query Match 100.0%; Score 3135; DB 9; Length 598;  
Best Local Similarity 100.0%; Pred. No. 1.6e-194;  
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
Qy 1 MCSRVPLLLPLLLALLGPGVQGPCSGCQCQSQPQVCTARQGTTPVDRDVPDVTGLVVF 60  
Db 1 MCSRVPLLLPLLLALLGPGVQGPCSGCQCQSQPQVCTARQGTTPVDRDVPDVTGLVVF 60  
  
Qy 61 ENGITMLDASSFAGLPGQLLDLSQNIASURLPRLLLDLSHNSLLALEPGILDANVE 120  
Db 61 ENGITMLDASSFAGLPGQLLDLSQNIASURLPRLLLDLSHNSLLALEPGILDANVE 120  
  
Qy 121 ALRLAGLQLODGLSRLRNHLDLVDNQLERPPVIRGLRGLTRLRAGNTRIAQL 180  
Db 121 ALRLAGLQLODGLSRLRNHLDLVDNQLERPPVIRGLRGLTRLRAGNTRIAQL 180  
  
Qy 181 RPDLAGLAAQLQELDVNSLSQALPGDLSGLFPRLLLLAAARNFNCVPLSWFGPWRE 240  
Db 181 RPDLAGLAAQLQELDVNSLSQALPGDLSGLFPRLLLLAAARNFNCVPLSWFGPWRE 240  
  
Qy 241 SHVTLASPEETRCHFPKPNAGRLLELDYADFGCPATTTTATVPTTRPVVREPTALSSSL 300  
Db 241 SHVTLASPEETRCHFPKPNAGRLLELDYADFGCPATTTTATVPTTRPVVREPTALSSSL 300  
  
Qy 301 APTWLSPTAPATEAPSPSTAPPTVGPVQPDQCPSTCLNGGTCGLGTRHRLACLCEG 360  
Db 301 APTWLSPTAPATEAPSPSTAPPTVGPVQPDQCPSTCLNGGTCGLGTRHRLACLCEG 360  
  
Qy 361 FTGLYCSQMCGTRPSPTVTPRPSRLTLGIEVPSTLSRVGLQRYLQSSSVQLRSRLR 420  
Db 361 FTGLYCSQMCGTRPSPTVTPRPSRLTLGIEVPSTLSRVGLQRYLQSSSVQLRSRLR 420  
  
Qy 421 LTYRNLGSPDKRLVTLRLPASLABYTVTQLRPNATYSVCVMPLGFGRVPEGEERACGAHT 480  
Db 421 LTYRNLGSPDKRLVTLRLPASLABYTVTQLRPNATYSVCVMPLGFGRVPEGEERACGAHT 480  
  
Qy 481 PPVHNSHAPVTOAREGNLPLIIAPALAAVLLAALAAVGAAYCYVRGRAMAAADQKQV 540  
Db 481 PPVHNSHAPVTOAREGNLPLIIAPALAAVLLAALAAVGAAYCYVRGRAMAAADQKQV 540  
  
Qy 541 GPGAGPLEGKVPLEPGPKATGGGALPGSGSECEVPLMGFPQGLQSPHAKPYI 598  
Db 541 GPGAGPLEGKVPLEPGPKATGGGALPGSGSECEVPLMGFPQGLQSPHAKPYI 598

RESULT 6  
US-09-945-015-69  
; Sequence 69, Application US/09945015

;; Patent No. US20020132768A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Baker, Kevin  
;; APPLICANT: Botstein, David  
;; APPLICANT: Eaton, Dan  
;; APPLICANT: Ferrara, Napoleone  
;; APPLICANT: Filvaroff, Ellen  
;; APPLICANT: Gerritsen, Mary  
;; APPLICANT: Goddard, Audrey  
;; APPLICANT: Godowski, Paul  
;; APPLICANT: Grimaldi, Christopher  
;; APPLICANT: Gurney, Austin  
;; APPLICANT: Hillan, Kenneth  
;; APPLICANT: Kijavin, Ivar  
;; APPLICANT: Napier, Mary  
;; APPLICANT: Roy, Margaret  
;; APPLICANT: Tumas, Daniel  
;; APPLICANT: Wood, William  
;; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
;; FILE REFERENCE: P2548PICI  
;; CURRENT APPLICATION NUMBER: US/09/945,015  
;; CURRENT FILING DATE: 2001-09-26  
;; PRIOR APPLICATION NUMBER: 09/866,028  
;; PRIOR FILING DATE: 2001-05-25  
;; PRIOR APPLICATION NUMBER: 60/067,411  
;; PRIOR FILING DATE: December 3, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,334  
;; PRIOR FILING DATE: December 11, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,335  
;; PRIOR FILING DATE: December 11, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,278  
;; PRIOR FILING DATE: December 11, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,425  
;; PRIOR FILING DATE: December 12, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,596  
;; PRIOR FILING DATE: December 16, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,694  
;; PRIOR FILING DATE: December 16, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,702  
;; PRIOR FILING DATE: December 16, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,870  
;; PRIOR FILING DATE: December 17, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,873  
;; PRIOR FILING DATE: December 17, 1997  
;; PRIOR APPLICATION NUMBER: 60/068,017  
;; PRIOR FILING DATE: December 18, 1997  
;; PRIOR APPLICATION NUMBER: 60/070,440  
;; PRIOR FILING DATE: January 5, 1998  
;; PRIOR APPLICATION NUMBER: 60/074,086  
;; PRIOR FILING DATE: February 9, 1998  
;; PRIOR APPLICATION NUMBER: 60/074,092  
;; PRIOR FILING DATE: February 9, 1998  
;; PRIOR APPLICATION NUMBER: 60/075,945  
;; PRIOR FILING DATE: February 25, 1998  
;; PRIOR APPLICATION NUMBER: 60/112,850  
;; PRIOR FILING DATE: December 16, 1998  
;; PRIOR APPLICATION NUMBER: 60/113,296  
;; PRIOR FILING DATE: December 22, 1998  
;; PRIOR APPLICATION NUMBER: 60/146,222  
;; PRIOR FILING DATE: July 28, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US98/19330  
;; PRIOR FILING DATE: September 16, 1998  
;; PRIOR APPLICATION NUMBER: PCT/US98/25108  
;; PRIOR FILING DATE: December 1, 1998  
;; PRIOR APPLICATION NUMBER: 09/216,021  
;; PRIOR FILING DATE: December 16, 1998  
;; PRIOR APPLICATION NUMBER: 09/218,517  
;; PRIOR FILING DATE: December 22, 1998  
;; PRIOR APPLICATION NUMBER: 09/254,311  
;; PRIOR FILING DATE: March 3, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/12252  
;; PRIOR FILING DATE: June 22, 1999

;; PRIOR APPLICATION NUMBER: PCT/US99/21090  
;; PRIOR FILING DATE: September 15, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28409  
;; PRIOR FILING DATE: No. US20020132768A1ember 30, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28313  
;; PRIOR FILING DATE: No. US20020132768A1ember 30, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28301  
;; PRIOR FILING DATE: December 1, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/30095  
;; PRIOR FILING DATE: December 16, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US00/03565  
;; PRIOR FILING DATE: February 11, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/04414  
;; PRIOR FILING DATE: February 22, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/05841  
;; PRIOR FILING DATE: March 2, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/08439  
;; PRIOR FILING DATE: March 30, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/14042  
;; PRIOR FILING DATE: May 22, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/20710  
;; PRIOR FILING DATE: July 28, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/32678  
;; PRIOR FILING DATE: December 1, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US01/06520  
;; PRIOR FILING DATE: February 28, 2001  
;; NUMBER OF SEQ ID NOS: 120  
;; SEQ ID NO 69  
;; LENGTH: 598  
;; TYPE: PRT  
;; ORGANISM: Homo Sapien  
US-09-943-015-69

Query Match 100.0%; Score 3135; DB 9; Length 598;  
Best Local Similarity 100.0%; Pred. No. 1.6e-194;  
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MCSRVPLLLPLLLALLGALGVGCGPCSCQSQPQTVCCTARQTTVPDRVPPDTVGLYVF 60  
DB 1 MCSRVPLLLPLLLALLGALGVGCGPCSCQSQPQTVCCTARQTTVPDRVPPDTVGLYVF 60  
QY 61 ENGITMLDASSFAGLPGQLDLDSQNIASRLPRLLLLDLSHNSLLALEPGLDITANVE 120  
DB 61 ENGITMLDASSFAGLPGQLDLDSQNIASRLPRLLLLDLSHNSLLALEPGLDITANVE 120  
QY 121 ALRLAGLGHQQLDEGLFSRLNHLHDVDSDNQLERVPVIRGLGTRLRLAGNTRIAQL 180  
DB 121 ALRLAGLGHQQLDEGLFSRLNHLHDVDSDNQLERVPVIRGLGTRLRLAGNTRIAQL 180  
QY 181 RPEDLAGLAALQELDVSNLSLOALPGDLGSLFPRLLRLLAAARNPFCVCPLSWFGPWVRE 240  
DB 181 RPEDLAGLAALQELDVSNLSLOALPGDLGSLFPRLLRLLAAARNPFCVCPLSWFGPWVRE 240  
QY 241 SHVTLASPETRCHFPKXNAGRLLELDVADFGCPATTTTATVTPTRPVVREPTALSSSL 300  
DB 241 SHVTLASPETRCHFPKXNAGRLLELDVADFGCPATTTTATVTPTRPVVREPTALSSSL 300  
QY 301 APTWLSPTAPATEAPSPPTAPPTVCPVPOPCDPCSTCLNGTCHLGRHHLACLCPG 360  
DB 301 APTWLSPTAPATEAPSPPTAPPTVCPVPOPCDPCSTCLNGTCHLGRHHLACLCPG 360  
QY 361 FTGLYCESQMGQTRSPPTVTPRPRSLTLGIEPVSPTSRLVGLORYLQGSVQLRSRLR 420  
DB 361 FTGLYCESQMGQTRSPPTVTPRPRSLTLGIEPVSPTSRLVGLORYLQGSVQLRSRLR 420  
QY 421 LTYRNLSGDPKRLVTLRLPASLAEYTVTQLRPNATYSVCWMLPGKRPVPEGEACGEAHT 480  
DB 421 LTYRNLSGDPKRLVTLRLPASLAEYTVTQLRPNATYSVCWMLPGKRPVPEGEACGEAHT 480  
QY 481 PPAVSHNHAPVTOAREGNPLLIAPALAAVLLAALAAVGAAYCVRGRMAAAQDKGOV 540  
DB 481 PPAVSHNHAPVTOAREGNPLLIAPALAAVLLAALAAVGAAYCVRGRMAAAQDKGOV 540

QY 541 GPGAGPLEGKVKVPLEPGPKATEGGGALPGSGSECEVPLMGFPGLQSPHAKPYI 598  
DB 541 GPGAGPLEGKVKVPLEPGPKATEGGGALPGSGSECEVPLMGFPGLQSPHAKPYI 598  
RESULT 7  
US-09-944-396-69  
;; Sequence 69, Application US/09944396  
;; Patent No. US20020132981A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Baker, Kevin  
;; APPLICANT: Botstein, David  
;; APPLICANT: Eaton, Dan  
;; APPLICANT: Ferrara, Napoleone  
;; APPLICANT: Filvaroff, Ellen  
;; APPLICANT: Gerritsen, Mary  
;; APPLICANT: Goddard, Audrey  
;; APPLICANT: Godowski, Paul  
;; APPLICANT: Grimaldi, Christopher  
;; APPLICANT: Gurney, Austin  
;; APPLICANT: Hillan, Kenneth  
;; APPLICANT: Kljavin, Ivar  
;; APPLICANT: Napier, Mary  
;; APPLICANT: Roy, Margaret  
;; APPLICANT: Tumas, Daniel  
;; APPLICANT: Wood, William  
;; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
;; FILE REFERENCE: P2548P1C1  
;; CURRENT APPLICATION NUMBER: US/09/944,396  
;; CURRENT FILING DATE: 2001-09-26  
;; PRIOR APPLICATION NUMBER: 09/866,028  
;; PRIOR FILING DATE: 2001-05-25  
;; PRIOR APPLICATION NUMBER: 60/067,411  
;; PRIOR FILING DATE: December 3, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,334  
;; PRIOR FILING DATE: December 11, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,335  
;; PRIOR FILING DATE: December 11, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,278  
;; PRIOR FILING DATE: December 11, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,425  
;; PRIOR FILING DATE: December 12, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,696  
;; PRIOR FILING DATE: December 16, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,694  
;; PRIOR FILING DATE: December 16, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,702  
;; PRIOR FILING DATE: December 16, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,870  
;; PRIOR FILING DATE: December 17, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,873  
;; PRIOR FILING DATE: December 17, 1997  
;; PRIOR APPLICATION NUMBER: 60/068,017  
;; PRIOR FILING DATE: December 18, 1997  
;; PRIOR APPLICATION NUMBER: 60/070,440  
;; PRIOR FILING DATE: January 5, 1998  
;; PRIOR APPLICATION NUMBER: 60/074,086  
;; PRIOR FILING DATE: February 9, 1998  
;; PRIOR APPLICATION NUMBER: 60/074,092  
;; PRIOR FILING DATE: February 9, 1998  
;; PRIOR APPLICATION NUMBER: 60/075,945  
;; PRIOR FILING DATE: February 25, 1998  
;; PRIOR APPLICATION NUMBER: 60/112,850  
;; PRIOR FILING DATE: December 16, 1998  
;; PRIOR APPLICATION NUMBER: 60/113,296  
;; PRIOR FILING DATE: December 22, 1998  
;; PRIOR APPLICATION NUMBER: 60/146,222  
;; PRIOR FILING DATE: July 28, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US98/19330  
;; PRIOR FILING DATE: September 16, 1998  
;; PRIOR APPLICATION NUMBER: PCT/US98/25108  
;; PRIOR FILING DATE: December 1, 1998

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; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020132981A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020132981A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 69
; LENGTH: 598
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-09-944-396-69

Query Match      100.0%; Score 3135; DB 9; Length 598;
Best Local Similarity 100.0%; Pred. No. 1.6e-194;
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 MCSRVPLLLPLLLLALGPGVQGCPSGCQSQPQTVFCTARQGTTPRDVPPDVTGLYVF 60
Db      1 MCSRVPLLLPLLLLALGPGVQGCPSGCQSQPQTVFCTARQGTTPRDVPPDVTGLYVF 60

Qy      61 ENGITMLDASSFAGLPGILDLSONQIASLRLLRLDLSHNSLLALEPGILDANVE 120
Db      61 ENGITMLDASSFAGLPGILDLSONQIASLRLLRLDLSHNSLLALEPGILDANVE 120

Qy      121 ALRLAGLGLQDLGLFSRLRNLDLSDVSNQLERVPPVIRGLRGLTRLRAGNTRIAQL 180
Db      121 ALRLAGLGLQDLGLFSRLRNLDLSDVSNQLERVPPVIRGLRGLTRLRAGNTRIAQL 180

Qy      181 RPEDLAGLALQDLVDVSNLSIALPGDLSGLFPRLRLALAAARNPNCVPLSWFGPWVRE 240
Db      181 RPEDLAGLALQDLVDVSNLSIALPGDLSGLFPRLRLALAAARNPNCVPLSWFGPWVRE 240

Qy      241 SHVTLASPEETRCHFPKAGRLLELDYADFGCPATTTATVTPTRPVREPTALSSSL 300
Db      241 SHVTLASPEETRCHFPKAGRLLELDYADFGCPATTTATVTPTRPVREPTALSSSL 300

Qy      301 APTWLSPTAPATEAPSPSTAPPTVGPVQPDCCPPSTCLNGGTCHLGRHHLACLCPGEG 360
Db      301 APTWLSPTAPATEAPSPSTAPPTVGPVQPDCCPPSTCLNGGTCHLGRHHLACLCPGEG 360

Qy      361 FTGLYCSQMGQGRTPSPPTVTPRPSRLTIGBPVSPTSRLVGLQRYLQSSSVQLRSRLR 420
Db      361 FTGLYCSQMGQGRTPSPPTVTPRPSRLTIGBPVSPTSRLVGLQRYLQSSSVQLRSRLR 420

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RESULT 8
US-09-944-432-69
; Sequence 69, Application US/09944432
; Patent No. US20020142419A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,432
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998

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Qy      421 LTVRNLSGPKRLVTLRLPASLAETVTVQLRPNATYSVCVMPGLGPRVPEGEACGEAHT 480
Db      421 LTVRNLSGPKRLVTLRLPASLAETVTVQLRPNATYSVCVMPGLGPRVPEGEACGEAHT 480

Qy      481 PPAVHNSHAPVTVQAREGNLPLLIAPALAAVLLAALAAVGAAYCVRRGRAMAAAAQDKQV 540
Db      481 PPAVHNSHAPVTVQAREGNLPLLIAPALAAVLLAALAAVGAAYCVRRGRAMAAAAQDKQV 540

Qy      541 GPGAGPLELEGVKVPLEPGPKATEGGGEALPSGSECEVPLMGFPGLQSPHAKPYI 598
Db      541 GPGAGPLELEGVKVPLEPGPKATEGGGEALPSGSECEVPLMGFPGLQSPHAKPYI 598

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102 PRIOR APPLICATION NUMBER: 60/113,296  
103 PRIOR FILING DATE: December 22, 1998  
104 PRIOR APPLICATION NUMBER: 60/146,222  
105 PRIOR FILING DATE: July 28, 1999  
106 PRIOR APPLICATION NUMBER: PCT/US98/19330  
107 PRIOR FILING DATE: September 16, 1998  
108 PRIOR APPLICATION NUMBER: PCT/US98/25108  
109 PRIOR FILING DATE: December 1, 1998  
110 PRIOR APPLICATION NUMBER: 09/216,021  
111 PRIOR FILING DATE: December 16, 1998  
112 PRIOR APPLICATION NUMBER: 09/218,517  
113 PRIOR FILING DATE: December 22, 1998  
114 PRIOR APPLICATION NUMBER: 09/254,311  
115 PRIOR FILING DATE: March 3, 1999  
116 PRIOR APPLICATION NUMBER: PCT/US99/12252  
117 PRIOR FILING DATE: June 22, 1999  
118 PRIOR APPLICATION NUMBER: PCT/US99/21090  
119 PRIOR FILING DATE: September 15, 1999  
120 PRIOR APPLICATION NUMBER: PCT/US99/28409  
121 PRIOR FILING DATE: No. US20020142419A1ember 30, 1999  
122 PRIOR APPLICATION NUMBER: PCT/US99/28313  
123 PRIOR FILING DATE: No. US20020142419A1ember 30, 1999  
124 PRIOR APPLICATION NUMBER: PCT/US99/28301  
125 PRIOR FILING DATE: December 1, 1999  
126 PRIOR APPLICATION NUMBER: PCT/US99/30095  
127 PRIOR FILING DATE: December 16, 1999  
128 PRIOR APPLICATION NUMBER: PCT/US00/03565  
129 PRIOR FILING DATE: February 11, 2000  
130 PRIOR APPLICATION NUMBER: PCT/US00/04414  
131 PRIOR FILING DATE: February 22, 2000  
132 PRIOR APPLICATION NUMBER: PCT/US00/05841  
133 PRIOR FILING DATE: March 2, 2000  
134 PRIOR APPLICATION NUMBER: PCT/US00/08439  
135 PRIOR FILING DATE: March 30, 2000  
136 PRIOR APPLICATION NUMBER: PCT/US00/14042  
137 PRIOR FILING DATE: May 22, 2000  
138 PRIOR APPLICATION NUMBER: PCT/US00/20710  
139 PRIOR FILING DATE: July 28, 2000  
140 PRIOR APPLICATION NUMBER: PCT/US00/32678  
141 PRIOR FILING DATE: December 1, 2000  
142 PRIOR APPLICATION NUMBER: PCT/US01/06520  
143 PRIOR FILING DATE: February 28, 2001  
144 NUMBER OF SEQ ID NOS: 120  
145 SEQ ID NO 69  
146 LENGTH: 598  
147 TYPE: PRT  
148 ORGANISM: Homo Sapien  
149 US-09-944-432-69

Query Match 100.0%; Score 3135; DB 9; Length 598;  
Best Local Similarity 100.0%; Pred. No. 1.6e-194;  
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MCSRPVLLP LLL L L L L L A L G P V G C P S G C Q S P Q T V F C T A R G T T V P R D P D T V G L Y V F 60  
DB 1 MCSRPVLLP LLL L L L L L A L G P V G C P S G C Q S P Q T V F C T A R G T T V P R D P D T V G L Y V F 60  
QY 61 ENGITWLDASSFAGLPGQLLDLSONQIASRLPRLLLLDLSHNSLLALEPGLDITANVE 120  
DB 61 ENGITWLDASSFAGLPGQLLDLSONQIASRLPRLLLLDLSHNSLLALEPGLDITANVE 120  
QY 121 ALRLAGLGGQQLDEGLFSRLNLHDLVDSDNQLERVPVIRGLRGLTRLRLAGNTRIAQL 180  
DB 121 ALRLAGLGGQQLDEGLFSRLNLHDLVDSDNQLERVPVIRGLRGLTRLRLAGNTRIAQL 180  
QY 181 RPEDLAGLAALQELDVSNLSQALPGDLGSLGFLPRLLLAAARNPFCVCLSWFGPWRE 240  
DB 181 RPEDLAGLAALQELDVSNLSQALPGDLGSLGFLPRLLLAAARNPFCVCLSWFGPWRE 240  
QY 241 SHVTLASPETRCHFPKKNAGRLLLLELDVADFGCPATTTTATVPTTRPVVREPTALSSSL 300  
DB 241 SHVTLASPETRCHFPKKNAGRLLLLELDVADFGCPATTTTATVPTTRPVVREPTALSSSL 300

RESULT 9

US-09-943-762-69

; Sequence 69, Application US/09943762

; Patent No. US20020142958A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin

; APPLICANT: Botstein, David

; APPLICANT: Batton, Dan

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Gerritsen, Mary

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul

; APPLICANT: Grimaldi, Christopher

; APPLICANT: Gurney, Austin

; APPLICANT: Hillan, Kenneth

; APPLICANT: Kljavin, Ivar

; APPLICANT: Napier, Mary

; APPLICANT: Roy, Margaret

; APPLICANT: Tumas, Daniel

; APPLICANT: Wood, William

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

; FILE REFERENCE: P2548P1C1

; CURRENT APPLICATION NUMBER: US/09/943,762

; PRIOR FILING DATE: 2001-09-26

; PRIOR APPLICATION NUMBER: 09/866,028

; PRIOR FILING DATE: 2001-05-25

; PRIOR APPLICATION NUMBER: 60/067,411

; PRIOR FILING DATE: December 3, 1997

; PRIOR APPLICATION NUMBER: 60/069,334

; PRIOR FILING DATE: December 11, 1997

; PRIOR APPLICATION NUMBER: 60/069,335

; PRIOR FILING DATE: December 11, 1997

; PRIOR APPLICATION NUMBER: 60/069,278

; PRIOR FILING DATE: December 11, 1997

; PRIOR APPLICATION NUMBER: 60/069,425

; PRIOR FILING DATE: December 12, 1997

; PRIOR APPLICATION NUMBER: 60/069,696

; PRIOR FILING DATE: December 16, 1997

; PRIOR APPLICATION NUMBER: 60/069,694

; PRIOR FILING DATE: December 16, 1997

; PRIOR APPLICATION NUMBER: 60/069,702

; PRIOR FILING DATE: December 16, 1997

; PRIOR APPLICATION NUMBER: 60/069,870

; PRIOR FILING DATE: December 17, 1997

; PRIOR APPLICATION NUMBER: 60/069,873

; PRIOR FILING DATE: December 17, 1997

; PRIOR APPLICATION NUMBER: 60/068,017

; PRIOR FILING DATE: December 18, 1997

; PRIOR APPLICATION NUMBER: 60/070,440

; PRIOR FILING DATE: January 5, 1998

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; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020142958A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020142958A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 69
; LENGTH: 598
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-943-762-69

Query Match      100.0%; Score 3135; DB 9; Length 598;
Best Local Similarity 100.0%; Pred. No. 1.6e-194;
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  MCSRVPLLLPLLLLALPGVGQCPGSCQCQPQTVFCTARQGTVPDRDVPDVTGLYVF 60
Db      1  MCSRVPLLLPLLLLALPGVGQCPGSCQCQPQTVFCTARQGTVPDRDVPDVTGLYVF 60

Qy      61  ENGTMLDASSFAGLPGQLLDLSQNIASRLPRLLLDLSHNSLLALEPGILDITANVE 120
Db      61  ENGTMLDASSFAGLPGQLLDLSQNIASRLPRLLLDLSHNSLLALEPGILDITANVE 120

Qy      121  ALRLAGLQLODDEGLFSRLRNLDLDVSDNQLERVPVIRGLRGLTRLRAGNTRIAQL 180
Db      121  ALRLAGLQLODDEGLFSRLRNLDLDVSDNQLERVPVIRGLRGLTRLRAGNTRIAQL 180
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Qy      181  RPDLAGLAALQELDVSNLSIQALPGDLISGLFPELRLLAAARNPFNCVCLSWFGPWVRE 240
Db      181  RPDLAGLAALQELDVSNLSIQALPGDLISGLFPELRLLAAARNPFNCVCLSWFGPWVRE 240

Qy      241  SHVTLASPEETRCHFFPKNAGRLLELDYADFGCPATTTTATVPTTRPVVREPTALSSSL 300
Db      241  SHVTLASPEETRCHFFPKNAGRLLELDYADFGCPATTTTATVPTTRPVVREPTALSSSL 300

Qy      301  APTWLSPTAPATEAPSPSTAPPTVGVPOQDCPPSTCLNGGTCHLGRHHLACLCPGEG 360
Db      301  APTWLSPTAPATEAPSPSTAPPTVGVPOQDCPPSTCLNGGTCHLGRHHLACLCPGEG 360

Qy      361  FTGLYCESQMGQGTRESPTVTPRPRESLTGLIEPVSPTSRLVGLORYLOGSSVQLRSRLR 420
Db      361  FTGLYCESQMGQGTRESPTVTPRPRESLTGLIEPVSPTSRLVGLORYLOGSSVQLRSRLR 420

Qy      421  LTYRNLSGDPDKRLVTLRLPASLAEYTVTLRPNATYSVCMPLGPRVPEGEACGEAHT 480
Db      421  LTYRNLSGDPDKRLVTLRLPASLAEYTVTLRPNATYSVCMPLGPRVPEGEACGEAHT 480

Qy      481  PPAVHSNHAPVTOAREGNLPLLIAPALAAVLLAALAAVGAAYCVRRGRAMAAAQDKGV 540
Db      481  PPAVHSNHAPVTOAREGNLPLLIAPALAAVLLAALAAVGAAYCVRRGRAMAAAQDKGV 540

Qy      541  GPAGAPLELEGVKVPLEPPGPKATEGGGEALPSGSECEVPLMGPRPGGLQSPHAKPYI 598
Db      541  GPAGAPLELEGVKVPLEPPGPKATEGGGEALPSGSECEVPLMGPRPGGLQSPHAKPYI 598

RESULT 10
US-09-944-654-69
; Sequence 69, Application US/09944654
; Patent No. US20020142959A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Flivaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,654
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
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[illegible]



;; PRIOR APPLICATION NUMBER: 60/069,425  
;; PRIOR FILING DATE: December 12, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,696  
;; PRIOR FILING DATE: December 16, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,694  
;; PRIOR FILING DATE: December 16, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,702  
;; PRIOR FILING DATE: December 16, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,870  
;; PRIOR FILING DATE: December 17, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,873  
;; PRIOR FILING DATE: December 17, 1997  
;; PRIOR APPLICATION NUMBER: 60/068,017  
;; PRIOR FILING DATE: December 18, 1997  
;; PRIOR APPLICATION NUMBER: 60/070,440  
;; PRIOR FILING DATE: January 5, 1998  
;; PRIOR APPLICATION NUMBER: 60/074,086  
;; PRIOR FILING DATE: February 9, 1998  
;; PRIOR APPLICATION NUMBER: 60/074,092  
;; PRIOR FILING DATE: February 9, 1998  
;; PRIOR APPLICATION NUMBER: 60/075,945  
;; PRIOR FILING DATE: February 25, 1998  
;; PRIOR APPLICATION NUMBER: 60/112,850  
;; PRIOR FILING DATE: December 16, 1998  
;; PRIOR APPLICATION NUMBER: 60/113,296  
;; PRIOR FILING DATE: December 22, 1998  
;; PRIOR APPLICATION NUMBER: 60/146,222  
;; PRIOR FILING DATE: July 28, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US98/19330  
;; PRIOR FILING DATE: September 16, 1998  
;; PRIOR APPLICATION NUMBER: PCT/US98/25108  
;; PRIOR FILING DATE: December 1, 1998  
;; PRIOR APPLICATION NUMBER: 09/216,021  
;; PRIOR FILING DATE: December 16, 1998  
;; PRIOR APPLICATION NUMBER: 09/218,517  
;; PRIOR FILING DATE: December 22, 1998  
;; PRIOR APPLICATION NUMBER: 09/254,311  
;; PRIOR FILING DATE: March 3, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/12252  
;; PRIOR FILING DATE: June 22, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/21090  
;; PRIOR FILING DATE: September 15, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28409  
;; PRIOR FILING DATE: December 1, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28313  
;; PRIOR FILING DATE: No. US20020150976A  
;; PRIOR APPLICATION NUMBER: PCT/US99/28301  
;; PRIOR FILING DATE: December 1, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/30095  
;; PRIOR FILING DATE: December 16, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US00/03565  
;; PRIOR FILING DATE: February 11, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/04414  
;; PRIOR FILING DATE: February 22, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/05841  
;; PRIOR FILING DATE: March 2, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/08439  
;; PRIOR FILING DATE: March 30, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/14042  
;; PRIOR FILING DATE: May 22, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/20710  
;; PRIOR FILING DATE: July 28, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/32678  
;; PRIOR FILING DATE: December 1, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US01/06520  
;; PRIOR FILING DATE: February 28, 2001  
;; NUMBER OF SEQ ID NOS: 120  
;; SEQ ID NO 69  
;; LENGTH: 598  
;; TYPE: PRT  
;; ORGANISM: Homo Sapien  
US-09-943-851A-69

Query Match 100.0%; Score 3135; DB 9; Length 598;  
Best Local Similarity 100.0%; Pred. No. 1.6e-194; Indels 0; Gaps 0;  
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
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Db 1 MCSRVPLLLPLLLLLALGPGVQGCPCSCQCSQQTVECTARQGTTPRDPVPPDTVGLYVF 60  
  
Qy 61 ENGITMDASSFAGLPGQLLDLSQNIASIRLPRLLLDLSHNSLLALPEGILDANVE 120  
Db 61 ENGITMDASSFAGLPGQLLDLSQNIASIRLPRLLLDLSHNSLLALPEGILDANVE 120  
  
Qy 121 ALRLAGLQQLDEGLFSRLRNLDLSDNQLERVPVIRGLRLRLRAGNTRIAQL 180  
Db 121 ALRLAGLQQLDEGLFSRLRNLDLSDNQLERVPVIRGLRLRLRAGNTRIAQL 180  
  
Qy 181 RPEDLAGLAALQELDVSNLSIQALPGDLGLFPRRLRLAAARNPFNCVPLSWFGPWVRE 240  
Db 181 RPEDLAGLAALQELDVSNLSIQALPGDLGLFPRRLRLAAARNPFNCVPLSWFGPWVRE 240  
  
Qy 241 SHVTLASPEETRCHFPKPNAGRLLLELDYADFGCPATTTATVTPRPVVRREPTALSSSL 300  
Db 241 SHVTLASPEETRCHFPKPNAGRLLLELDYADFGCPATTTATVTPRPVVRREPTALSSSL 300  
  
Qy 301 APTWLSPTAPATEAPSPSTAPPTVGPVPODCCPSTCLNGGTCHLGRHHLACLCEG 360  
Db 301 APTWLSPTAPATEAPSPSTAPPTVGPVPODCCPSTCLNGGTCHLGRHHLACLCEG 360  
  
Qy 361 FTGLYCESQMGQGRPSPTPTVTPRPSRLTLGIEPVSPTSIRVGLQRYLQSSSVQLASLR 420  
Db 361 FTGLYCESQMGQGRPSPTPTVTPRPSRLTLGIEPVSPTSIRVGLQRYLQSSSVQLASLR 420  
  
Qy 421 LTVRNLSGDPKRLVTLRLPASLAETVTVQRPNATYSCVMPLGPGRVPEGEACGGAHT 480  
Db 421 LTVRNLSGDPKRLVTLRLPASLAETVTVQRPNATYSCVMPLGPGRVPEGEACGGAHT 480  
  
Qy 481 PPAVHNSHAPVTOAREGNLPLITAPALAAVLLAALAAVGAAYCVRGRAMAAAQDKGV 540  
Db 481 PPAVHNSHAPVTOAREGNLPLITAPALAAVLLAALAAVGAAYCVRGRAMAAAQDKGV 540  
  
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Db 541 GPGAGPLELEGVKVPLEPGPKATEGGGEALPSSGECEVPLMGFPGGLQSLPHAKPYI 598  
  
RESULT 12  
US-09-944-413-69  
; Sequence 69, Application US/09944413  
; Patent No. US20020156004A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Botstein, David  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Kijavins, Ivar  
; APPLICANT: Napier, Mary  
; APPLICANT: Roy, Margaret  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Wood, William  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; TITLE OF INVENTION: ACIDS ENCODING THE SAME  
; FILE REFERENCE: P2548P1C1  
; CURRENT APPLICATION NUMBER: US/09/944,413  
; CURRENT FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 09/866,028  
; PRIOR FILING DATE: 2001-05-25

;; PRIOR APPLICATION NUMBER: 60/067,411  
;; PRIOR FILING DATE: December 3, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,334  
;; PRIOR FILING DATE: December 11, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,335  
;; PRIOR FILING DATE: December 11, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,278  
;; PRIOR FILING DATE: December 11, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,425  
;; PRIOR FILING DATE: December 12, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,696  
;; PRIOR FILING DATE: December 16, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,694  
;; PRIOR FILING DATE: December 16, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,702  
;; PRIOR FILING DATE: December 16, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,870  
;; PRIOR FILING DATE: December 17, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,873  
;; PRIOR FILING DATE: December 17, 1997  
;; PRIOR APPLICATION NUMBER: 60/068,017  
;; PRIOR FILING DATE: December 18, 1997  
;; PRIOR APPLICATION NUMBER: 60/070,440  
;; PRIOR FILING DATE: January 5, 1998  
;; PRIOR APPLICATION NUMBER: 60/074,086  
;; PRIOR FILING DATE: February 9, 1998  
;; PRIOR APPLICATION NUMBER: 60/074,092  
;; PRIOR FILING DATE: February 9, 1998  
;; PRIOR APPLICATION NUMBER: 60/075,945  
;; PRIOR FILING DATE: February 25, 1998  
;; PRIOR APPLICATION NUMBER: 60/112,850  
;; PRIOR FILING DATE: December 16, 1998  
;; PRIOR APPLICATION NUMBER: 60/113,296  
;; PRIOR FILING DATE: December 22, 1998  
;; PRIOR APPLICATION NUMBER: 60/146,222  
;; PRIOR FILING DATE: July 28, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US98/19330  
;; PRIOR FILING DATE: September 16, 1998  
;; PRIOR APPLICATION NUMBER: PCT/US98/25108  
;; PRIOR FILING DATE: December 1, 1998  
;; PRIOR APPLICATION NUMBER: 09/216,021  
;; PRIOR FILING DATE: December 16, 1998  
;; PRIOR APPLICATION NUMBER: 09/218,517  
;; PRIOR FILING DATE: December 22, 1998  
;; PRIOR APPLICATION NUMBER: 09/254,311  
;; PRIOR FILING DATE: March 3, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/12252  
;; PRIOR FILING DATE: June 22, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/21090  
;; PRIOR FILING DATE: September 15, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28409  
;; PRIOR FILING DATE: No. US20020156004A1ember 30, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28313  
;; PRIOR FILING DATE: No. US20020156004A1ember 30, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28301  
;; PRIOR FILING DATE: December 1, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/30095  
;; PRIOR FILING DATE: December 16, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US00/03565  
;; PRIOR FILING DATE: February 11, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/04414  
;; PRIOR FILING DATE: February 22, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/05841  
;; PRIOR FILING DATE: March 2, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/08439  
;; PRIOR FILING DATE: March 30, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/14042  
;; PRIOR FILING DATE: May 22, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/20710  
;; PRIOR FILING DATE: July 28, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/32678  
;; PRIOR FILING DATE: December 1, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US01/06520

;; PRIOR FILING DATE: February 28, 2001  
;; NUMBER OF SEQ ID NOS: 120  
;; SEQ ID NO '69  
;; LENGTH: 598  
;; TYPE: PRT  
;; ORGANISM: Homo Sapien  
US-09-944-413-69

Query Match 100.0%; Score 3135; DB 9; Length 598;  
Best Local Similarity 100.0%; Pred. No. 1.6e-194;  
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MCSRVPLLLPLLLLLALGPGVQCSCGSCSQSPQVFTARQCTTVPRDPVDTVGLYVF 60  
DB 1 MCSRVPLLLPLLLLLALGPGVQCSCGSCSQSPQVFTARQCTTVPRDPVDTVGLYVF 60  
QY 61 ENGITMLDASSFAGLPGLQLDLDSNQIASRLPRLILLDLSHNSLLALEPGLDTANVE 120  
DB 61 ENGITMLDASSFAGLPGLQLDLDSNQIASRLPRLILLDLSHNSLLALEPGLDTANVE 120  
QY 121 ALRLAGLGLQQLDEGLFSRLRNLDLSDNQLERVPVIRGLGLTRLRAGNTRIAQL 180  
DB 121 ALRLAGLGLQQLDEGLFSRLRNLDLSDNQLERVPVIRGLGLTRLRAGNTRIAQL 180  
QY 181 RPEDLAGLAALQELDVSNLSLOALPCDLGLPRLRLAALAAANPNCVPLSWFGPWVRE 240  
DB 181 RPEDLAGLAALQELDVSNLSLOALPCDLGLPRLRLAALAAANPNCVPLSWFGPWVRE 240  
QY 241 SHVTLASPEETRCHEPPKKNAGRLLELDYADFGCPATTTTATVTRPVVREPTALSSSL 300  
DB 241 SHVTLASPEETRCHEPPKKNAGRLLELDYADFGCPATTTTATVTRPVVREPTALSSSL 300  
QY 301 APTWLSPTAPATEAPSPSTAPPVTPVPPQDCPPSTCLNGTCHLGRHHLACLCPG 360  
DB 301 APTWLSPTAPATEAPSPSTAPPVTPVPPQDCPPSTCLNGTCHLGRHHLACLCPG 360  
QY 361 FTGLYCESQMGQGTTPPTVTPRPRSLTGLIEPVSTSLRVGLQRYLQSSVQLRSUR 420  
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QY 421 LTYRNLSPDKRLVTLRLPASLAETVTQLRPNATYSVCVWPLGPRVPEGEACEAHT 480  
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DB 481 PPAVHSHAPVTQAREGNLPLLIAPALAAVLLAALAAVGAAYCVRGRGMAAAADKGV 540  
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DB 541 GPGAGPLEBVGKVPLEPGPKATEGGGEBALPSGSECEVPLMGFPGLQSPHAKPYI 598

## RESULT 13

US-09-944-403-69  
;; Sequence 69, Application US/09944403  
;; Patent No. US20020165143A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Baker, Kevin  
;; APPLICANT: Botstein, David  
;; APPLICANT: Eaton, Dan  
;; APPLICANT: Ferrara, Napoleone  
;; APPLICANT: Filvaroff, Ellen  
;; APPLICANT: Gerritsen, Mary  
;; APPLICANT: Goddard, Audrey  
;; APPLICANT: Godowski, Paul  
;; APPLICANT: Grimaldi, Christopher  
;; APPLICANT: Gurney, Austin  
;; APPLICANT: Hillan, Kenneth  
;; APPLICANT: Kllavin, Ivar  
;; APPLICANT: Napier, Mary  
;; APPLICANT: Roy, Margaret  
;; APPLICANT: Tumas, Daniel

APPLICANT: Wood,William  
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
FILE REFERENCE: P2548P1C1  
CURRENT APPLICATION NUMBER: US/09/944,403  
PRIOR FILING DATE: 2001-09-26  
PRIOR APPLICATION NUMBER: 09/866,028  
PRIOR FILING DATE: 2001-05-25  
PRIOR APPLICATION NUMBER: 60/067,411  
PRIOR FILING DATE: December 3, 1997  
PRIOR APPLICATION NUMBER: 60/069,334  
PRIOR FILING DATE: December 11, 1997  
PRIOR APPLICATION NUMBER: 60/069,335  
PRIOR FILING DATE: December 11, 1997  
PRIOR APPLICATION NUMBER: 60/069,278  
PRIOR FILING DATE: December 11, 1997  
PRIOR APPLICATION NUMBER: 60/069,425  
PRIOR FILING DATE: December 12, 1997  
PRIOR APPLICATION NUMBER: 60/069,696  
PRIOR FILING DATE: December 16, 1997  
PRIOR APPLICATION NUMBER: 60/069,694  
PRIOR FILING DATE: December 16, 1997  
PRIOR APPLICATION NUMBER: 60/069,702  
PRIOR FILING DATE: December 16, 1997  
PRIOR APPLICATION NUMBER: 60/069,870  
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PRIOR APPLICATION NUMBER: 60/069,873  
PRIOR FILING DATE: December 17, 1997  
PRIOR APPLICATION NUMBER: 60/068,017  
PRIOR FILING DATE: December 18, 1997  
PRIOR APPLICATION NUMBER: 60/070,440  
PRIOR FILING DATE: January 5, 1998  
PRIOR APPLICATION NUMBER: 60/074,086  
PRIOR FILING DATE: February 9, 1998  
PRIOR APPLICATION NUMBER: 60/074,092  
PRIOR FILING DATE: February 9, 1998  
PRIOR APPLICATION NUMBER: 60/075,945  
PRIOR FILING DATE: February 25, 1998  
PRIOR APPLICATION NUMBER: 60/112,850  
PRIOR FILING DATE: December 16, 1998  
PRIOR APPLICATION NUMBER: 60/113,296  
PRIOR FILING DATE: December 22, 1998  
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PRIOR FILING DATE: July 28, 1999  
PRIOR APPLICATION NUMBER: PCT/US98/19330  
PRIOR FILING DATE: September 16, 1998  
PRIOR APPLICATION NUMBER: PCT/US98/25108  
PRIOR FILING DATE: December 1, 1998  
PRIOR APPLICATION NUMBER: 09/216,021  
PRIOR FILING DATE: December 16, 1998  
PRIOR APPLICATION NUMBER: 09/218,517  
PRIOR FILING DATE: December 22, 1998  
PRIOR APPLICATION NUMBER: 09/254,311  
PRIOR FILING DATE: March 3, 1999  
PRIOR APPLICATION NUMBER: PCT/US99/12252  
PRIOR FILING DATE: June 22, 1999  
PRIOR APPLICATION NUMBER: PCT/US99/21090  
PRIOR FILING DATE: September 15, 1999  
PRIOR APPLICATION NUMBER: PCT/US99/28409  
PRIOR FILING DATE: No. US20020165143A1ember 30, 1999  
PRIOR APPLICATION NUMBER: PCT/US99/28313  
PRIOR FILING DATE: No. US20020165143A1ember 30, 1999  
PRIOR APPLICATION NUMBER: PCT/US99/28301  
PRIOR FILING DATE: December 1, 1999  
PRIOR APPLICATION NUMBER: PCT/US99/30095  
PRIOR FILING DATE: December 16, 1999  
PRIOR APPLICATION NUMBER: PCT/US00/03565  
PRIOR FILING DATE: February 11, 2000  
PRIOR APPLICATION NUMBER: PCT/US00/04414  
PRIOR FILING DATE: February 22, 2000  
PRIOR APPLICATION NUMBER: PCT/US00/05841  
PRIOR FILING DATE: March 2, 2000  
PRIOR APPLICATION NUMBER: PCT/US00/08439

;; PRIOR FILING DATE: March 30, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/14042  
;; PRIOR FILING DATE: May 22, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/20710  
;; PRIOR FILING DATE: July 28, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/32678  
;; PRIOR FILING DATE: December 1, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US01/06520  
;; PRIOR FILING DATE: February 28, 2001  
;; NUMBER OF SEQ ID NOS: 120  
;; SEQ ID NO 69  
;; LENGTH: 598  
;; TYPE: PRT  
;; ORGANISM: Homo Sapien  
US-09-944-403-69  
  
Query Match 100.0%; Score 3135; DB 9; Length 598;  
Best Local Similarity 100.0%; Pred. No. 1.6e-194;  
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
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Db 1 MCSRVP LLLP LLL L L L L L L A L G P G V Q G C P S G C Q C S Q P T V F C T A R Q G T T V P R D V P P D T V G L Y V F 60  
  
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Db 61 ENGITM L D A S S F A G L P G L Q L L D L S Q N O I A S I R L P R L L L D L S H N S L L A L E P G I L D T A N V E 120  
  
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RESULT 14  
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; Sequence 69, Application US/09944896  
; Patent No. US20020168715A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Boctstein, David  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul  
 ; APPLICANT: Grimaldi, Christopher  
 ; APPLICANT: Gurney, Austin  
 ; APPLICANT: Hillan, Kenneth  
 ; APPLICANT: Kijavini, Ivar  
 ; APPLICANT: Napier, Mary  
 ; APPLICANT: Roy, Margaret  
 ; APPLICANT: Tumas, Daniel  
 ; APPLICANT: Wood, William  
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
 ; FILE REFERENCE: P2548P1C1  
 ; CURRENT APPLICATION NUMBER: US/09/944,896  
 ; CURRENT FILING DATE: 2001-08-31  
 ; PRIOR APPLICATION NUMBER: 09/866,028  
 ; PRIOR FILING DATE: 2001-05-25  
 ; PRIOR APPLICATION NUMBER: 60/069,334  
 ; PRIOR FILING DATE: December 11, 1997  
 ; PRIOR APPLICATION NUMBER: 60/069,335  
 ; PRIOR FILING DATE: December 11, 1997  
 ; PRIOR APPLICATION NUMBER: 60/069,278  
 ; PRIOR FILING DATE: December 11, 1997  
 ; PRIOR APPLICATION NUMBER: 60/069,425  
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 ; PRIOR APPLICATION NUMBER: 60/069,696  
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 ; PRIOR FILING DATE: December 16, 1997  
 ; PRIOR APPLICATION NUMBER: 60/069,702  
 ; PRIOR FILING DATE: December 16, 1997  
 ; PRIOR APPLICATION NUMBER: 60/068,017  
 ; PRIOR FILING DATE: December 18, 1997  
 ; PRIOR APPLICATION NUMBER: 60/070,440  
 ; PRIOR FILING DATE: January 5, 1998  
 ; PRIOR APPLICATION NUMBER: 60/074,086  
 ; PRIOR FILING DATE: February 9, 1998  
 ; PRIOR APPLICATION NUMBER: 60/074,092  
 ; PRIOR FILING DATE: February 9, 1998  
 ; PRIOR APPLICATION NUMBER: 60/075,945  
 ; PRIOR FILING DATE: February 25, 1998  
 ; PRIOR APPLICATION NUMBER: 60/112,850  
 ; PRIOR FILING DATE: December 16, 1998  
 ; PRIOR APPLICATION NUMBER: 60/113,296  
 ; PRIOR FILING DATE: December 22, 1998  
 ; PRIOR APPLICATION NUMBER: 60/146,222  
 ; PRIOR FILING DATE: July 28, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US98/19330  
 ; PRIOR FILING DATE: September 16, 1998  
 ; PRIOR APPLICATION NUMBER: PCT/US98/25108  
 ; PRIOR FILING DATE: December 1, 1998  
 ; PRIOR APPLICATION NUMBER: 09/216,021  
 ; PRIOR FILING DATE: December 16, 1998  
 ; PRIOR APPLICATION NUMBER: 09/218,517  
 ; PRIOR FILING DATE: December 22, 1998  
 ; PRIOR APPLICATION NUMBER: 09/254,311  
 ; PRIOR FILING DATE: March 3, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US99/12252  
 ; PRIOR FILING DATE: June 22, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090  
 ; PRIOR FILING DATE: September 15, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US99/28409  
 ; PRIOR FILING DATE: No. US20020168715A1ember 30, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US99/28313  
 ; PRIOR FILING DATE: No. US20020168715A1ember 30, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US99/28301  
 ; PRIOR FILING DATE: December 1, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US99/30095  
 ; PRIOR FILING DATE: December 16, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US00/03565

; PRIOR FILING DATE: February 11, 2000  
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414  
 ; PRIOR FILING DATE: February 22, 2000  
 ; PRIOR APPLICATION NUMBER: PCT/US00/05841  
 ; PRIOR FILING DATE: March 2, 2000  
 ; PRIOR APPLICATION NUMBER: PCT/US00/08439  
 ; PRIOR FILING DATE: March 30, 2000  
 ; PRIOR APPLICATION NUMBER: PCT/US00/14042  
 ; PRIOR FILING DATE: May 22, 2000  
 ; PRIOR APPLICATION NUMBER: PCT/US00/20710  
 ; PRIOR FILING DATE: July 28, 2000  
 ; PRIOR APPLICATION NUMBER: PCT/US00/32678  
 ; PRIOR FILING DATE: December 1, 2000  
 ; PRIOR APPLICATION NUMBER: PCT/US01/06520  
 ; PRIOR FILING DATE: February 28, 2001  
 ; NUMBER OF SEQ ID NOS: 120  
 ; SEQ ID NO 69  
 ; LENGTH: 598  
 ; TYPE: PRT  
 ; ORGANISM: Homo Sapien  
 ; US-09-944-896-69  
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 Best Local Similarity 100.0%; Pred. No. 1.6e-194;  
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RESULT 15  
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 ; Sequence 69, Application US/09944944  
 ; Patent No. US20020173463A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Baker, Kevin

; APPLICANT: Botstein,David  
 ; APPLICANT: Eaton,Dan  
 ; APPLICANT: Ferrara,Napoleone  
 ; APPLICANT: Filvaroff,Ellen  
 ; APPLICANT: Gerritsen,Mary  
 ; APPLICANT: Goddard,Audrey  
 ; APPLICANT: Godowski,Paul  
 ; APPLICANT: Grimaldi,Christopher  
 ; APPLICANT: Gurney,Austin  
 ; APPLICANT: Hillan,Kenneth  
 ; APPLICANT: Klijavin,Ivar  
 ; APPLICANT: Napier,Mary  
 ; APPLICANT: Roy,Margaret  
 ; APPLICANT: Tumas,Daniel  
 ; APPLICANT: Wood,William  
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
 ; FILE OF INVENTION: ACIDS ENCODING THE SAME  
 ; FILE REFERENCE: P2548P1C1  
 ; CURRENT APPLICATION NUMBER: US/09/944,944  
 ; CURRENT FILING DATE: 2001-09-26  
 ; PRIOR APPLICATION NUMBER: 09/866,028  
 ; PRIOR FILING DATE: 2001-05-25  
 ; PRIOR APPLICATION NUMBER: 60/067,411  
 ; PRIOR FILING DATE: December 3, 1997  
 ; PRIOR APPLICATION NUMBER: 60/069,334  
 ; PRIOR FILING DATE: December 11, 1997  
 ; PRIOR APPLICATION NUMBER: 60/069,335  
 ; PRIOR FILING DATE: December 11, 1997  
 ; PRIOR APPLICATION NUMBER: 60/069,278  
 ; PRIOR FILING DATE: December 11, 1997  
 ; PRIOR APPLICATION NUMBER: 60/069,425  
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 ; PRIOR FILING DATE: December 17, 1997  
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 ; PRIOR FILING DATE: December 18, 1997  
 ; PRIOR APPLICATION NUMBER: 60/070,440  
 ; PRIOR FILING DATE: January 5, 1998  
 ; PRIOR APPLICATION NUMBER: 60/074,086  
 ; PRIOR FILING DATE: February 9, 1998  
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 ; PRIOR FILING DATE: February 9, 1998  
 ; PRIOR APPLICATION NUMBER: 60/075,945  
 ; PRIOR FILING DATE: February 25, 1998  
 ; PRIOR APPLICATION NUMBER: 60/112,850  
 ; PRIOR FILING DATE: December 16, 1998  
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 ; PRIOR FILING DATE: September 16, 1998  
 ; PRIOR APPLICATION NUMBER: PCT/US98/25108  
 ; PRIOR FILING DATE: December 1, 1998  
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 ; PRIOR FILING DATE: December 16, 1998  
 ; PRIOR APPLICATION NUMBER: 09/218,517  
 ; PRIOR FILING DATE: December 22, 1998  
 ; PRIOR APPLICATION NUMBER: 09/254,311  
 ; PRIOR FILING DATE: March 3, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US99/12252  
 ; PRIOR FILING DATE: June 22, 1999  
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 ; PRIOR FILING DATE: September 15, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US99/28409

; PRIOR FILING DATE: No. US20020173463A1ember 30, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US99/28313  
 ; PRIOR FILING DATE: No. US20020173463A1ember 30, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US99/28301  
 ; PRIOR FILING DATE: December 1, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US99/30095  
 ; PRIOR FILING DATE: December 16, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US00/03565  
 ; PRIOR FILING DATE: February 11, 2000  
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414  
 ; PRIOR FILING DATE: February 22, 2000  
 ; PRIOR APPLICATION NUMBER: PCT/US00/05841  
 ; PRIOR FILING DATE: March 2, 2000  
 ; PRIOR APPLICATION NUMBER: PCT/US00/08439  
 ; PRIOR FILING DATE: March 30, 2000  
 ; PRIOR APPLICATION NUMBER: PCT/US00/14042  
 ; PRIOR FILING DATE: May 22, 2000  
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 ; PRIOR FILING DATE: July 28, 2000  
 ; PRIOR APPLICATION NUMBER: PCT/US00/32678  
 ; PRIOR FILING DATE: December 1, 2000  
 ; PRIOR APPLICATION NUMBER: PCT/US01/06520  
 ; PRIOR FILING DATE: February 28, 2001  
 ; NUMBER OF SEQ ID NOS: 120  
 ; SEQ ID NO 69  
 ; LENGTH: 598  
 ; TYPE: PRT  
 ; ORGANISM: Homo Sapien  
 US-09-944-944-69  
  
 Query Match 100.0%; Score 3135; DB 9; Length 598;  
 Best Local Similarity 100.0%; Pred. No. 1.6e-194; Indels 0; Gaps 0;  
 Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
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 Db 1 MCSRVPLLLPLLLALLGPGVQGCPCSCQCSQPTVFCTARQGTTPVPRDVPDVTGLVVF 60  
  
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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: May 12, 2005, 19:00:35 ; Search time 42 Seconds  
(without alignments)  
1369.943 Million cell updates/sec

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Perfect score: 3135  
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Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1500 summaries

Database : PIR 79:\*\*

1: piri:\*\*  
2: piri:\*\*  
3: piri:\*\*  
4: piri:\*\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

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4	281.5	9.0	603	JC1282	insulin-like growt
5	278.5	8.9	603	JC6128	insulin-like growt
6	278	8.9	1531	T42218	slit-1 protein hom
7	264.5	8.4	420	A53531	oncofetal trophobl
8	261	8.3	1523	T13953	MEGF5 protein - ra
9	255.5	8.1	1469	B36665	slit protein 2 pre
10	255.5	8.1	1480	A36665	slit protein 1 pre
11	251	8.0	622	JC7973	synleucin - huma
12	243.5	7.8	312	NBHUA2	leucine-rich alpha
13	240	7.7	560	A60164	platelet membrane
14	237	7.6	707	JC7763	neutonal leucine-r
15	231	7.4	1025	T42626	secreted leucine-r
16	222.5	7.1	536	A34901	lysine carboxypept
17	214.5	6.8	1535	S46224	peroxidasin - fru
18	212.5	6.8	361	A53860	chondroadherin pre
19	210.5	6.7	4302	A38971	polycystic kidney
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21	208.5	6.7	382	T39068	proline-arginine-
22	200	6.4	653	T25194	hypothetical prote
23	199	6.3	1328	T23007	hypothetical prote
24	194.5	6.2	789	T28714	hypothetical prote
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31	189	6.0	839	2	T04859	extensin homolog F
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35	183	5.8	662	2	S42799	garp precursor - h
36	182	5.8	369	2	S32559	biglycan precursor
37	181.5	5.8	357	2	S24317	decorin precursor
38	177.5	5.7	2493	2	A55481	adenylate cyclase
39	176.5	5.6	1495	2	T31434	densin-180 - rat
40	175	5.6	343	2	A41748	lumican precursor
41	173	5.5	925	2	JC2033	G protein-coupled
42	172.5	5.5	359	1	NBHUC8	decorin precursor
43	172	5.5	1134	2	T04587	hypothetical prote
44	170.5	5.4	2145	2	JC4747	adenylate cyclase
45	170	5.4	907	2	JE0176	orphan G protein-c
46	169.5	5.4	760	2	T06291	extensin homolog T
47	169	5.4	354	2	A55454	decorin precursor
48	169	5.4	839	2	F75518	hypothetical prote
49	168.5	5.4	907	2	JG0193	G protein-coupled
50	167	5.3	800	2	S37387	internalin A precu
51	167	5.3	1112	2	T10504	disease resistance
52	166.5	5.3	549	2	T41744	hypothetical prote
53	166.5	5.3	800	2	AB1129	hypothetical prote
54	165.5	5.3	360	2	S06280	decorin precursor
55	165.5	5.3	526	2	S84552	hypothetical prote
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57	165.5	5.3	1268	2	A49674	flightless-I homol
58	165	5.3	994	2	H96510	probable disease r
59	163.5	5.2	786	2	T01456	extensin homolog F
60	162	5.2	242	2	T14791	hypothetical prote
61	161	5.1	559	2	T42998	Ras-binding protei
62	161	5.1	682	2	A49121	cell-surface molec
63	161	5.1	682	2	A43318	connectin precurs
64	160.5	5.1	2910	2	T42214	otogelin - mouse
65	160	5.1	744	2	E86255	hypothetical prote
66	159.5	5.1	1112	2	T00952	hypothetical prote
67	159	5.1	572	2	T30947	protein AC7.2 limp
68	159	5.1	613	2	A88684	hypothetical prote
69	159	5.1	702	2	T21148	leucine-rich-repea
70	159	5.1	1119	2	AD1822	hypothetical prote
71	158.5	5.1	738	2	T19938	hypothetical prote
72	158	5.0	1066	2	T15864	hypothetical prote
73	158	5.0	3570	2	T45025	mucin MUC5B, trach
74	156.5	5.0	360	2	I47020	decorin - rabbit
75	156.5	5.0	980	2	H84632	probable receptor-
76	156.5	5.0	354	2	S29145	decorin precursor
77	156	5.0	594	2	T23841	hypothetical prote
78	155.5	5.0	903	2	T00705	N-chimerin homolog
79	155.5	5.0	1334	2	T50568	probable multi-dom
80	155	4.9	961	2	T23395	hypothetical prote
81	154.5	4.9	1013	2	T10659	probable serine/th
82	154.5	4.9	1143	2	T10636	hypothetical prote
83	154.5	4.9	1192	2	T48499	receptor-like prot
84	154.5	4.9	1495	2	S60255	transcription co-r
85	153.5	4.9	864	2	T08575	protein kinase hom
86	153.5	4.9	894	1	A41527	protein-tyrosine k
87	153	4.9	699	2	C43674	US4 protein - huma
88	152	4.8	786	2	T08664	Toll protein-like
89	151.5	4.8	695	1	JN0898	foliitropin recept
90	151	4.8	540	2	T12704	leucine-rich prote
91	151	4.8	1389	2	T13852	gene wheeler prote
92	150.5	4.8	695	1	QRHUF	foliitropin recept
93	150.5	4.8	1109	2	T18536	receptor-like prot
94	150	4.8	1134	1	A29944	chaoptin precursor
95	149.5	4.8	224	2	T32185	hypothetical prote
96	149.5	4.8	696	2	JC7361	foliitropin recept
97	149	4.8	1025	1	A57676	protein kinase Xa2
98	149	4.8	1143	2	B84431	probable receptor
99	149	4.8	2357	2	A59249	class VII unconven
100	148.5	4.7	375	2	S05390	fibromodulin precu
101	148.5	4.7	610	2	T23836	hypothetical prote
102	148.5	4.7	680	2	T19939	hypothetical prote

103	148.5	4.7	890	2	C96654	hypothetical prote	176	136	4.3	4957	2	T03455	ALR protein - huma
104	148.5	4.7	964	2	T49038	hypothetical prote	177	135.5	4.3	427	2	JC4915	ags protein precu
105	148.5	4.7	1115	2	S40241	G protein-coupled	178	135.5	4.3	499	2	D83333	hypothetical prote
106	148	4.7	338	2	S52284	lumicon, secretory	179	135.5	4.3	1124	2	B84742	probable receptor-
107	148	4.7	1188	2	S49915	extensin-like prot	180	135.5	4.3	5262	2	T03454	ALR protein - huma
108	147.5	4.7	316	2	A41781	proteoglycan-Lb -	181	135	4.3	601	2	S56144	SH3 domain binding
109	147.5	4.7	1385	2	T13887	tlr protein - frui	182	134.5	4.3	613	2	T15489	hypothetical prote
110	147	4.7	1964	2	T09059	notch4 - mouse	183	134.5	4.3	847	2	F96531	hypothetical prote
111	147	4.7	2414	2	A54277	transcription adap	184	134.5	4.3	1039	2	T22117	hypothetical prote
112	146.5	4.7	382	2	T04260	hypothetical prote	185	134	4.3	530	2	A45690	transactivator BBN
113	146.5	4.7	925	2	C94538	probable LRR recep	186	134	4.3	656	2	B47096	hyLB homolog - Str
114	146.5	4.7	1408	2	S16148	gene serrate prote	187	134	4.3	886	2	T40734	probable adenylate
115	146	4.7	369	2	G83434	translocation prot	188	133.5	4.3	277	2	S25770	RSP-1 protein - mo
116	145.5	4.6	380	2	S71876	fibromodulin - chi	189	133.5	4.3	384	2	A41710	promastigote surfa
117	145.5	4.6	886	2	S29605	glycoprotein 350/2	190	133.5	4.3	1068	2	H96769	hypothetical prote
118	145.5	4.6	2142	2	B35098	MHC class III hist	191	133	4.2	576	2	T36729	probable serine/th
119	145	4.6	458	2	T19941	hypothetical prote	192	133	4.2	852	2	I51259	tyrosine kinase C
120	145	4.6	679	2	T20713	hypothetical prote	193	133	4.2	932	2	T48489	receptor-like prot
121	145	4.6	694	2	JC2327	folliotropin recept	194	133	4.2	1257	2	A88536	protein B0523.5 li
122	145	4.6	1839	1	OVBK	adenylate cyclase	195	133	4.2	4391	2	A38096	perlecan precursor
123	144.5	4.6	486	2	B86460	hypothetical prote	196	132.5	4.2	463	1	A36479	milk fat globule m
124	144.5	4.6	2187	2	T30826	nascent polypeptid	197	132.5	4.2	2035	2	A40718	host cell factor C
125	144.5	4.6	3149	1	Q0BE8	BPLF1 protein - hu	198	132	4.2	3164	1	WMBEH6	UR36 protein - hum
126	144	4.6	695	2	I45896	follicle stimulati	199	131.5	4.2	346	2	T46916	hypothetical prote
127	144	4.6	1019	2	C96519	probable disease r	200	131.5	4.2	890	2	T00800	disease resistance
128	144	4.6	3020	2	A43932	mucin 2 precursor,	201	131.5	4.2	1097	2	A28943	Toll protein precu
129	143.5	4.6	243	2	B41710	promastigote surfa	202	131.5	4.2	1286	2	A88396	protein M0E10.2 [
130	143.5	4.6	476	2	T27051	hypothetical prote	203	131	4.2	612	2	T10727	protein kinase Xa2
131	143.5	4.6	496	2	C96832	hypothetical prote	204	131	4.2	767	2	B84594	probable LRR recep
132	143.5	4.6	605	2	T50817	protein serine/thr	205	131	4.2	905	2	T00475	probable disease r
133	143.5	4.6	683	2	T24486	hypothetical prote	206	131	4.2	915	2	T09575	smoothelin - human
134	142.5	4.5	1870	2	S37671	MHC class III hist	207	131	4.2	1095	2	G96746	hypothetical prote
135	142.5	4.5	1872	2	S36152	MHC class III hist	208	131	4.2	1196	2	T09356	brassinosteroid-in
136	142	4.5	661	2	I56258	RP105 - mouse	209	130.5	4.2	448	2	T27395	hypothetical prote
137	142	4.5	983	2	G84524	probable disease r	210	130	4.1	268	2	T19697	hypothetical prote
138	141.5	4.5	462	2	D84858	hypothetical prote	211	130	4.1	389	2	H86266	hypothetical prote
139	141.5	4.5	836	2	T46070	hypothetical prote	212	130	4.1	395	2	H75457	hypothetical prote
140	141.5	4.5	1029	2	T05050	protein kinase hom	213	130	4.1	768	2	T17462	disease resistance
141	141.5	4.5	1051	2	T13174	gp150 protein - fr	214	130	4.1	800	2	H84740	hypothetical prote
142	141	4.5	630	2	AC1129	internalin B [impo	215	129.5	4.1	315	2	T06806	proline rich prote
143	141	4.5	717	2	T33295	hypothetical prote	216	129.5	4.1	780	2	T00366	hypothetical prote
144	140.5	4.5	376	2	S52575	fibromodulin precu	217	129.5	4.1	861	2	A48825	Notch homolog Motc
145	140	4.5	277	2	I60122	rsu-1 homolog - hu	218	129.5	4.1	912	2	A54423	brevican precursor
146	140	4.5	474	2	S85763	chitinase (EC 3.2.	219	129.5	4.1	942	2	S23251	protein-tyrosine k
147	140	4.5	754	2	A85043	probable LRR recep	220	129.5	4.1	1173	2	I50620	proCK2 - chicken
148	140	4.5	1029	2	T00712	protein kinase hom	221	129.5	4.1	1469	2	T09219	basal transcriptio
149	139.5	4.4	333	2	T34555	hypothetical prote	222	129	4.1	371	2	S20075	promastigote surfa
150	139.5	4.4	527	2	A75399	hypothetical prote	223	129	4.1	835	2	T05259	probable disease r
151	139.5	4.4	539	2	G70520	probable csp prote	224	129	4.1	910	2	B96770	hypothetical prote
152	139.5	4.4	4351	2	T00252	MEGF1 protein - ra	225	129	4.1	1027	2	B85089	receptor protein k
153	139	4.4	581	2	A45551	insect-stage-speci	226	129	4.1	1064	2	B86465	probable Protein k
154	139	4.4	603	2	T24315	hypothetical prote	227	129	4.1	1232	2	T05342	hypothetical prote
155	139	4.4	720	2	T02361	hypothetical prote	228	129	4.1	1329	2	A64828	cell division prot
156	139	4.4	1088	2	B86312	FilA6.9 protein -	229	129	4.1	1342	2	B85614	cell division prot
157	139	4.4	2240	2	T37057	probable multi-dom	230	129	4.1	1342	2	G90750	cell division prot
158	138.5	4.4	342	2	A46743	lumican precursor	231	129	4.1	1959	1	AGRT	agrin - rat
159	138.5	4.4	990	2	T14756	hypothetical prote	232	129	4.1	2321	2	S78549	notch3 protein - h
160	138.5	4.4	1650	2	S53457	dominant autoantig	233	128.5	4.1	487	2	S42442	nuclear protein EB
161	138	4.4	630	2	C39930	hypothetical prote	234	128.5	4.1	677	2	H86208	protein F22G5.26 [
162	138	4.4	858	2	T00258	hypothetical prote	235	128.5	4.1	727	2	C84534	hypothetical prote
163	138	4.4	1952	2	T48814	hypothetical prote	236	128.5	4.1	744	2	C84537	probable receptor-
164	137.5	4.4	1151	2	T18535	high molecular mas	237	128.5	4.1	825	2	T29634	hypothetical prote
165	137.5	4.4	4660	2	T42737	gp330 protein prec	238	128.5	4.1	1113	2	T00271	hypothetical prote
166	137	4.4	562	2	T34319	hypothetical prote	239	128.5	4.1	3968	2	A44265	trithorax homolog
167	137	4.4	695	2	JC1493	folliotropin recept	240	128	4.1	597	2	S72468	probable transcrip
168	137	4.4	788	2	AG0786	secreted effector	241	128	4.1	967	2	T48210	hypothetical prote
169	137	4.4	907	1	Q0BE21	membrane antigen g	242	128	4.1	1428	2	T08852	lustrin A - Califo
170	137	4.4	4544	1	S02392	alpha-2-macroglobu	243	128	4.1	1914	2	T42635	tenascin Y precurs
171	137	4.4	4545	1	S25111	alpha-2-macroglobu	244	127.5	4.1	750	2	D86245	hypothetical prote
172	136	4.3	322	2	S72271	proteoglycan lb pr	245	127.5	4.1	1120	2	B86479	hypothetical prote
173	136	4.3	626	2	AE0123	probable antigenic	246	127.5	4.1	1784	2	C96615	hypothetical prote
174	136	4.3	692	2	A34548	folliotropin recept	247	127	4.1	327	2	S20074	promastigote surfa
175	136	4.3	1008	2	D84434	probable receptor-	248	127	4.1	773	2	T00502	probable receptor-

249	127	4.1	775	1	EDBE11	immediate-early pr	322	121.5	3.9	432	2	E96712	unknown protein, 6
250	127	4.1	800	2	G84740	hypothetical prote	323	121.5	3.9	519	2	T07026	ethylene receptor
251	127	4.1	1366	2	T35985	probable large pro	324	121.5	3.9	635	2	T07794	ethylene receptor
252	127	4.1	1895	2	T06609	disease resistance	325	121.5	3.9	686	2	JC7569	Delta-4 protein -
253	127	4.1	1955	1	AGCH	agrin precursor -	326	121.5	3.9	760	2	F86387	probable Pto kinas
254	126.5	4.0	268	2	T45616	hypothetical prote	327	121.5	3.9	902	2	T00588	hypothetical prote
255	126.5	4.0	685	2	JC7570	Delta-4 protein -	328	121.5	3.9	1251	2	A57293	latent transformin
256	126.5	4.0	694	2	JC4301	folitropin recept	329	121.5	3.9	1409	2	T37188	presynaptic activi
257	126.5	4.0	862	1	T46289	hypothetical prote	330	121.5	3.9	2265	1	FNBO	polyketide synthas
258	126.5	4.0	999	1	S27756	receptor-like prot	331	121.5	3.9	2297	2	T34918	notch 3 protein -
259	126.5	4.0	1091	2	S33596	protein-tyrosine k	332	121.5	3.9	2318	2	S45306	nonconventional myo
260	126.5	4.0	1777	2	T34369	hypothetical prote	333	121.5	3.9	3530	2	A59266	cell wall-plasma m
261	126	4.0	500	2	S49302	AWJ218 protein -	334	121	3.9	306	2	TS2340	probable disease r
262	126	4.0	865	2	A47282	calcium-binding pr	335	121	3.9	480	2	T00971	sulfated surface g
263	126	4.0	873	2	A47283	calphotin - fruit	336	121	3.9	485	2	A33647	Microtubule-associ
264	126	4.0	996	2	F86410	protein F3M18.12	337	121	3.9	733	2	A45301	Notch B protein -
265	126	4.0	1152	2	T31911	hypothetical prote	338	121	3.9	1203	2	A49175	hypothetical prote
266	126	4.0	1820	2	A55494	latent transformin	339	121	3.9	1520	2	T00273	notch protein homo
267	125.5	4.0	283	2	S13383	hydroxyproline-ric	340	121	3.9	2331	2	S18188	osteoinductive fac
268	125.5	4.0	548	2	AH1107	internalin H (limp	341	120.5	3.8	299	2	A35272	OP protein - Kenne
269	125.5	4.0	635	2	F75477	hypothetical prote	342	120.5	3.8	753	2	JQ0532	internalin, peptid
270	125.5	4.0	764	2	A40077	thytotropin recept	343	120.5	3.8	821	2	AB1126	disease resistance
271	125.5	4.0	1003	2	T05898	hypothetical prote	344	120.5	3.8	855	2	T17460	probable kinase hom
272	125	4.0	350	2	S22456	hydroxyproline-ric	345	120.5	3.8	976	2	T05897	probable receptor-
273	125	4.0	476	2	A36478	surface glycoprote	346	120.5	3.8	976	2	B84659	receptor protein k
274	125	4.0	783	2	T45899	receptor protein k	347	120.5	3.8	981	2	T50851	receptor protein k
275	125	4.0	818	2	F96586	hypothetical prote	348	120.5	3.8	987	2	T50850	receptor protein k
276	125	4.0	991	2	T52400	receptor-like prot	349	120.5	3.8	1118	2	A48292	micrin, tracheobron
277	125	4.0	1504	2	T49896	glycine/proline-ri	350	120.5	3.8	1152	2	A31183	microtubule-associ
278	125	4.0	2026	1	OYBX	adenylate cyclase	351	120.5	3.8	1722	2	E89753	protein Fl1C7.4 [i
279	124.5	4.0	298	2	B35272	osteoinductive fac	352	120.5	3.8	1778	2	AF1116	internalin protein
280	124.5	4.0	756	2	T27642	hypothetical prote	353	120.5	3.8	3566	1	A40701	tenascin-X precurs
281	124.5	4.0	849	2	C97303	hypothetical prote	354	120	3.8	361	2	AH1469	internalin protein
282	124.5	4.0	910	2	G84648	probable disease r	355	120	3.8	376	2	S71558	probable cell wall
283	124.5	4.0	977	2	C96745	hypothetical prote	356	120	3.8	458	2	T31631	hypothetical prote
284	124.5	4.0	1223	2	E88451	protein K10D2.1 [i	357	120	3.8	892	2	T09071	SH3 domains-contai
285	124.5	4.0	2176	2	T13806	toucan gene protei	358	120	3.8	962	2	T04124	receptor-like prot
286	124	4.0	496	2	T27642	conserved hypotet	359	120	3.8	1126	2	T20801	hypothetical prote
287	124	4.0	543	2	S35047	mucin JUL7 - human	360	120	3.8	1224	2	T04765	webi protein homol
288	124	4.0	574	2	A43556	Wiskott-Aldrich sy	361	119.5	3.8	267	2	S08314	cell wall glycopro
289	124	4.0	605	2	AG0123	probable antigenic	362	119.5	3.8	479	1	A31753	transcription fact
290	124	4.0	729	2	E70803	hypothetical prote	363	119.5	3.8	660	2	T45569	receptor protein k
291	124	4.0	766	2	B85440	receptor kinase-li	364	119.5	3.8	1048	1	XPBEA9	large structural p
292	124	4.0	978	2	E96787	protein T4Q12.5 [i	365	119.5	3.8	1079	2	C96772	probable receptor
293	124	4.0	1011	2	T45718	receptor-kinase li	366	119.5	3.8	1166	2	F96598	protein F2QN2.4 [i
294	124	4.0	1472	2	B54774	ATP binding casset	367	119.5	3.8	1400	2	B70963	hypothetical prote
295	124	4.0	4135	2	T42629	tenascin-X - bovin	368	119.5	3.8	1596	2	A35927	190K DNA-binding p
296	123.5	3.9	380	2	T01281	probable leucine-r	369	119.5	3.8	1643	2	T14274	versican precursor
297	123.5	3.9	492	2	F86263	hypothetical prote	370	119	3.8	164	2	IS3641	mucin SAC - human
298	123.5	3.9	656	2	AE1479	probable cell surf	371	119	3.8	352	2	S49299	AWJ172 protein -
299	123.5	3.9	690	2	T41296	probable alcohol d	372	119	3.8	424	2	S27783	hypothetical prote
300	123	3.9	528	2	T15198	hypothetical prote	373	119	3.8	550	2	C75557	hypothetical prote
301	123	3.9	574	2	T38819	wiskott-aldrich sy	374	119	3.8	651	2	T42644	hypothetical prote
302	123	3.9	888	2	S23065	ufo protein - mous	375	119	3.8	660	1	Q08E3	BHLFI protein - hu
303	123	3.9	1072	2	A37127	microtubule-associ	376	119	3.8	808	2	T23129	hypothetical prote
304	123	3.9	2591	2	T30288	pristinamycin I sy	377	119	3.8	864	2	D84740	hypothetical prote
305	122.5	3.9	303	2	S28264	hydroxyproline-ric	378	119	3.8	1006	2	T42731	atrophin-1 related
306	122.5	3.9	415	2	T13435	hypothetical prote	379	119	3.8	1045	2	T41119	internalin- relate
307	122.5	3.9	592	2	D70863	hypothetical prote	380	118.5	3.8	222	2	H96711	hypothetical prote
308	122.5	3.9	699	2	T05225	extensin homolog F	381	118.5	3.8	400	1	A39822	leukostalin precu
309	122.5	3.9	809	2	B84634	probable receptor-	382	118.5	3.8	677	2	E70722	hypothetical prote
310	122.5	3.9	845	2	T12537	hypothetical prote	383	118.5	3.8	751	2	AC2098	hypothetical prote
311	122.5	3.9	1016	2	T30553	disease resistance	384	118.5	3.8	869	2	AT1400	probable disease r
312	122.5	3.9	2944	2	A54849	collagen alpha 1(V	385	118.5	3.8	883	2	S57653	brevican precursor
313	122	3.9	298	2	JC4130	osteoeglycin precu	386	118.5	3.8	988	2	T45717	receptor-kinase li
314	122	3.9	326	2	T47222	hypothetical prote	387	118.5	3.8	1173	2	T25893	hypothetical prote
315	122	3.9	596	2	AE1515	internalin like pr	388	118.5	3.8	1356	2	A45445	Janusin precursor,
316	122	3.9	623	2	T19876	hypothetical prote	389	118.5	3.8	1607	2	T02837	long chain fatty a
317	122	3.9	672	2	B84782	probable receptor-	390	118	3.8	294	2	A37232	mucin, tracheal (A
318	122	3.9	715	2	G86239	protein F20B24.6 [	391	118	3.8	599	2	T10798	phorophorin-S - Vo
319	122	3.9	727	2	T47727	hypothetical prote	392	118	3.8	667	2	S74254	homotetic protein s
320	122	3.9	921	2	B86234	hypothetical prote	393	118	3.8	823	2	AD1935	general secretion
321	122	3.9	992	2	T05335	hypothetical prote	394	118	3.8	1134	1	JN0711	protein-tyrosine k

395 118 2471 2 A49128 cell-fate determin  
 396 117.5 473 2 D85041 hypothetical prote  
 397 117.5 624 2 A55576 collagen alpha 2(X  
 398 117.5 660 2 J06067 chitinase (EC 3.2.  
 399 117.5 996 2 T10725 protein kinase Xa2  
 400 117.5 1075 2 D70568 hypothetical prote  
 401 117.5 1706 2 I84499 zinc finger protei  
 402 117 431 2 T27904 hypothetical prote  
 403 117 655 1 A46688 hepatocyte growth  
 404 117 670 2 H96707 probable receptor  
 405 117 678 2 J04245 transcription fact  
 406 117 743 2 C84633 probable disease r  
 407 117 801 2 T29018 hypothetical prote  
 408 117 1007 2 C84668 probable receptor-  
 409 117 D75399 probable penicilli  
 410 117 1328 2 T43060 agrin - electric r  
 411 117 1450 2 T130273 hypothetical prote  
 412 117 1574 2 T13954 MEGF6 protein - ra  
 413 117 2082 2 T37056 probable multi-dom  
 414 117 2232 2 T34434 hypothetical prote  
 415 116.5 279 2 S53363 mucin SAC (Clone J  
 416 116.5 439 2 S51939 chitinase (EC 3.2.  
 417 116.5 621 2 I38467 low density lipopr  
 418 116.5 787 2 T27632 hypothetical prote  
 419 116.5 794 2 T27633 hypothetical prote  
 420 116.5 828 2 A88860 protein 2C518.3 [i  
 421 116.5 1048 2 T31425 C-terminal domain-  
 422 116.5 1446 1 A45344 immediate-early pr  
 423 116.5 2229 2 T16199 hypothetical prote  
 424 116 292 2 S24169 mucin - rat  
 425 116 652 2 S71753 repellent protein  
 426 116 660 2 A23348 hypothetical prote  
 427 116 729 2 F86308 Similar to disease  
 428 116 771 2 T02565 disease resistance  
 429 116 808 2 B97303 hypothetical prote  
 430 116 845 2 T07039 Hcr-0 protein - t  
 431 116 907 2 A24938 hypothetical T2 pr  
 432 116 1291 2 T00019 period protein hom  
 433 116 1494 2 T14355 protein-tyrosine-p  
 434 116 1840 2 T30250 G71 protein - mous  
 435 116 2531 2 A46019 notch-1 protein -  
 436 116 2555 2 A40043 notch protein homo  
 437 116 2774 2 A43359 microtubule-associ  
 438 115.5 322 2 A53715 apomucin precursor  
 439 115.5 513 2 AC3061 hypothetical prote  
 440 115.5 513 2 D98225 hypothetical prote  
 441 115.5 528 2 I47141 gastric mucin (Clo  
 442 115.5 696 2 T42659 hypothetical prote  
 443 115.5 805 2 T49385 hypothetical prote  
 444 115.5 946 2 S27921 nuclear antigen EB  
 445 115.5 1093 2 I38533 AF17 protein - hum  
 446 115.5 1268 2 S52781 neurocan - mouse  
 447 115.5 1460 1 EDBE1F immediate-early pr  
 448 115.5 2214 2 T16305 hypothetical prote  
 449 115.5 3421 1 W2BEB6 367K tegument prot  
 450 115 404 2 T08549 hypothetical prote  
 451 115 451 2 S74728 hypothetical prote  
 452 115 461 2 T10741 extensin-like prot  
 453 115 479 1 S25242 transcription fact  
 454 115 539 2 A11216 internalin, probab  
 455 115 766 2 T01817 hypothetical prote  
 456 115 838 2 T08423 Axin homolog Axil  
 457 115 980 2 T05414 protein kinase hom  
 458 115 1133 2 E86308 hypothetical prote  
 459 115 1220 2 A56136 jagged protein pre  
 460 115 2415 1 A39086 aggrecan precursor  
 461 114.5 328 2 J00985 hydroxyproline-ric  
 462 114.5 409 2 T11743 pp47 protein - pig  
 463 114.5 505 2 AC1469 internalin like pr  
 464 114.5 606 2 T51880 hypothetical prote  
 465 114.5 627 2 T27123 hypothetical prote  
 466 114.5 638 2 T05606 protein kinase hom  
 467 114 218 2 T01104 disease resistance

468 114 468 114 S00842 leukosialin precur  
 469 114 469 1 A34888 transcription fact  
 470 114 471 1 S20100 mullerian inhibiti  
 471 114 586 2 T29695 hypothetical prote  
 472 114 633 2 S62057 proline-rich prote  
 473 114 634 2 T00388 hypothetical prote  
 474 114 656 2 E75468 hypothetical prote  
 475 114 768 2 A42755 P-selectin precurs  
 476 114 1290 2 T00018 period protein hom  
 477 114 2225 2 T26063 hypothetical prote  
 478 113.5 317 2 S55316 mucin (Clone PGM-2  
 479 113.5 330 2 T46256 brevicin - human (  
 480 113.5 538 2 T01102 disease resistance  
 481 113.5 896 2 E43817 transforming prote  
 482 113.5 907 2 A86460 99.9K hypothetica  
 483 113.5 938 1 Q0BE24 nuclear antigen EB  
 484 113.5 1286 2 T33476 hypothetical prote  
 485 113.5 1907 2 S50893 protein-tyrosine-p  
 486 113.5 2911 2 T20566 hypothetical prote  
 487 113 371 2 T49908 hypothetical prote  
 488 113 377 2 A48018 mucin 7 precursor,  
 489 113 382 2 E84527 hypothetical prote  
 490 113 419 2 A90888 hypothetical prote  
 491 113 419 2 H85729 hypothetical prote  
 492 113 603 2 A75373 probable N-acetyl  
 493 113 979 2 A35913 regulatory factor  
 494 113 982 2 A53253 microtubule-associ  
 495 113 1002 2 T46033 receptor protein k  
 496 113 1025 2 T45647 receptor protein k  
 497 113 1069 2 S27922 nuclear antigen EB  
 498 113 1247 2 T42209 neural plakophilin  
 499 113 1343 2 AF0611 cell division prot  
 500 113 2688 2 I49477 alpha-A-crystallin  
 501 113 3381 2 T42389 versican precursor  
 502 112.5 347 2 S10571 mucin 1 precursor,  
 503 112.5 581 2 G96811 unknown protein T1  
 504 112.5 731 2 B86369 hypothetical prote  
 505 112.5 1075 2 A57377 transcription fact  
 506 112.5 1237 2 AC1583 internalin protein  
 507 112.5 1680 2 T01367 hypothetical prote  
 508 112.5 2479 2 F87386 conserved hypothet  
 509 112.5 4006 2 T09070 probable tenascin  
 510 112 241 2 S32359 glial growth facto  
 511 112 252 2 T01787 thyrotropin recept  
 512 112 253 1 JC1319 thyrotropin recept  
 513 112 285 2 A41826 probable pheromone  
 514 112 383 2 S53716 delta-like homeoti  
 515 112 413 2 S48756 transcription fact  
 516 112 704 2 AE2107 serine/threonine k  
 517 112 731 2 T04455 hypothetical prote  
 518 112 742 2 F84643 hypothetical prote  
 519 112 764 1 QRHURH thyrotropin recept  
 520 112 883 2 S49126 brevicin precursor  
 521 112 960 2 G84652 probable receptor-  
 522 112 990 2 T03784 probable receptor  
 523 112 1032 2 T34433 hypothetical prote  
 524 112 1289 2 AB2217 hypothetical prote  
 525 111.5 224 2 D72861 gene BCRF2 protein  
 526 111.5 383 2 S32975 transcription fact  
 527 111.5 478 1 I47154 probable disease r  
 528 111.5 645 2 T05251 hypothetical prote  
 529 111.5 649 2 T46500 maquerade precurs  
 530 111.5 1047 2 A55617 disease resistance  
 531 111.5 1253 2 T45787 disease resistance  
 532 111.5 1298 1 EDBE75 immediate-early pr  
 533 111.5 1353 1 JH0675 restrictin precurs  
 534 111.5 2649 2 T51023 hypothetical prote  
 535 111 274 2 JC8083 heart-restricted l  
 536 111 478 2 H86459 hypothetical prote  
 537 111 509 2 T05260 probable disease r  
 538 111 518 2 S50465 PAC2 protein - yea  
 539 111 548 2 E70546 hypothetical prote  
 540 111 603 2 S28941 coagulation factor

541	111	3.5	610	2	S35049	mucin JER57 - huma	614	109	3.5	2809	2	T30213	G-cadherin - sea u
542	111	3.5	620	2	T50150	yeast nrd1-like pr	615	108.5	3.5	308	2	JC7125	epidermal growth f
543	111	3.5	699	1	QRHUQT	lutropin-choriogon	616	108.5	3.5	389	2	S27200	proline-rich prote
544	111	3.5	853	2	T17461	disease resistance	617	108.5	3.5	402	2	A84581	probable disease r
545	111	3.5	932	2	T21338	hypothetical prote	618	108.5	3.5	418	2	T15142	hypothetical prote
546	111	3.5	984	2	T48216	hypothetical prote	619	108.5	3.5	499	2	A11107	internain E [lmpo
547	111	3.5	1721	1	I38902	retinoblastoma bin	620	108.5	3.5	514	2	H70699	probable ppp prote
548	111	3.5	2524	2	A35844	Xotch protein - Af	621	108.5	3.5	548	1	I37577	islet cell antigen
549	110.5	3.5	359	2	C55066	tyrosine decarboxy	622	108.5	3.5	662	2	A45155	mucin FIM-C.1 - Af
550	110.5	3.5	421	2	A60058	neural cell adhesi	623	108.5	3.5	698	2	I39713	celB protein - Agr
551	110.5	3.5	525	2	G86459	Hypothetical 55.6	624	108.5	3.5	710	1	Q0BE22	membrane antigen g
552	110.5	3.5	525	1	A58674	neurotrophin-3 rec	625	108.5	3.5	740	2	B84741	hypothetical prote
553	110.5	3.5	533	2	T07970	aromatic-L-amino-a	626	108.5	3.5	756	2	G86308	Similar to disease
554	110.5	3.5	565	2	T01327	Frizzled-2 protein	627	108.5	3.5	764	2	A35956	thyrotropin recept
555	110.5	3.5	684	2	JE03368	leucine-rich repea	628	108.5	3.5	783	1	A38637	Ras interactor RIN
556	110.5	3.5	803	1	S35695	neurotrophin-3 rec	629	108.5	3.5	825	1	A40026	hypothetical prote
557	110.5	3.5	815	2	B56708	extracellular sign	630	108.5	3.5	855	2	C82983	hypothetical prote
558	110.5	3.5	855	2	T07015	Cf-4A protein - to	631	108.5	3.5	1011	2	C84524	probable disease r
559	110.5	3.5	872	2	S33015	hypothetical prote	632	108.5	3.5	1125	2	B41206	microtubule-associ
560	110.5	3.5	992	2	A31666	hypothetical prote	633	108.5	3.5	1176	2	T49482	hypothetical prote
561	110.5	3.5	1207	2	T00378	KIAA0641 protein -	634	108.5	3.5	1184	2	G01763	atrophin-1 - human
562	110.5	3.5	1295	2	A32901	glp1 protein precu	635	108.5	3.5	1344	1	A35175	mucin 1 precursor,
563	110.5	3.5	1344	2	T14316	rig-1 protein - mo	636	108.5	3.5	1357	2	T29265	hypothetical prote
564	110.5	3.5	1346	2	T17412	polyketide synthas	637	108.5	3.5	1487	2	T02850	hypothetical prote
565	110.5	3.5	1736	2	T00391	hypothetical prote	638	108.5	3.5	3707	2	S18252	heparan sulfate pr
566	110.5	3.5	2476	2	T34022	zonadhesin - pig	639	108	3.4	348	2	JQ0431	hypothetical 35.5K
567	110	3.5	275	2	T51437	hypothetical prote	640	108	3.4	409	2	AG0752	flagellar hook-len
568	110	3.5	391	2	T04609	hypothetical prote	641	108	3.4	511	1	VGBE1K	chitinase (EC 3.2
569	110	3.5	549	2	S32987	hypothetical prote	642	108	3.4	542	2	I39540	proline-rich prote
570	110	3.5	691	2	D84889	probable receptor-	643	108	3.4	544	2	T17547	probable disease r
571	110	3.5	708	2	D96711	hypothetical prote	644	108	3.4	550	2	T36746	hypothetical prote
572	110	3.5	719	2	T02154	protein kinase hom	645	108	3.4	638	1	XXAV	diacylglycerol S
573	110	3.5	764	2	I48882	thyrotropin recept	646	108	3.4	741	2	T05250	probable disease r
574	110	3.5	846	2	H70599	hypothetical prote	647	108	3.4	862	2	S43922	versican - pig-tai
575	110	3.5	846	2	T21700	hypothetical prote	648	108	3.4	996	2	JE0237	apolipoprotein E r
576	110	3.5	951	2	A96770	hypothetical prote	649	108	3.4	1017	2	T31354	probable potassium
577	110	3.5	1123	2	D96756	receptor-like prot	650	108	3.4	1217	2	T51140	disease resistance
578	110	3.5	1483	2	E86143	F6F3.12 protein -	651	108	3.4	1217	2	T51141	alpha-fetoprotein
579	110	3.5	1711	1	A55148	protein-tyrosine-p	652	108	3.4	2783	1	A41948	unconventional myo
580	110	3.5	2703	1	A24420	notch protein - fr	653	108	3.4	3511	2	A59295	polyketide synthas
581	110	3.5	2715	2	T13049	eyelid - fruit fly	654	108	3.4	4613	2	T17409	PK506 polyketide s
582	110	3.5	3942	2	T42730	Bassoon protein -	655	108	3.4	7576	2	T17428	hypothetical prote
583	109.5	3.5	213	2	A86228	hypothetical prote	656	107.5	3.4	363	2	H87702	hydroxyproline-ric
584	109.5	3.5	279	2	T10361	hypothetical prote	657	107.5	3.4	369	2	S20500	hypothetical prote
585	109.5	3.5	318	2	T29479	hypothetical prote	658	107.5	3.4	414	2	C96770	PAS-6/7 protein pr
586	109.5	3.5	428	2	E71415	probable coll wall	659	107.5	3.4	427	2	S74211	hypothetical prote
587	109.5	3.5	473	2	S36553	L2 protein - human	660	107.5	3.4	536	2	H71563	hypothetical prote
588	109.5	3.5	507	2	T44768	antifreeze glycope	661	107.5	3.4	604	2	S25203	smr protein - Str
589	109.5	3.5	538	2	S57459	hook-containing pr	662	107.5	3.4	655	2	G96524	protein TIM5.9 [1
590	109.5	3.5	558	2	JCS878	plasma hyaluronan-	663	107.5	3.4	832	2	A31246	neurogenic protein
591	109.5	3.5	583	1	S22544	transcription fact	664	107.5	3.4	880	2	S00670	neurogenic repetit
592	109.5	3.5	612	2	I73633	gene trkC protein	665	107.5	3.4	881	2	B98320	cellulose synthase
593	109.5	3.5	825	2	A55178	neurotrophin recep	666	107.5	3.4	1009	2	T45645	receptor kinase-li
594	109.5	3.5	839	1	I73632	neurotrophin-3 rec	667	107.5	3.4	1099	2	A56155	tumor suppressor p
595	109.5	3.5	874	2	E97302	hypothetical prote	668	107.5	3.4	1206	2	S24407	formin isoform IV
596	109.5	3.5	878	2	T21621	hypothetical prote	669	107.5	3.4	1324	2	S52863	DNA-binding protei
597	109.5	3.5	954	2	T19765	hypothetical prote	670	107.5	3.4	1468	2	T11515	formin - mouse
598	109.5	3.5	1299	2	T47182	hypothetical prote	671	107.5	3.4	3534	2	T42567	tegument protein 2
599	109.5	3.5	1776	1	RRWPYM	genome polypeptid	672	107	3.4	176	1	A45606	platelet glycoprot
600	109.5	3.5	2531	2	T31070	notch homolog - se	673	107	3.4	228	2	S53504	extensin-like prot
601	109.5	3.5	2717	2	A34203	DNA-binding protei	674	107	3.4	273	2	A28512	fibronectin - chic
602	109	3.5	379	2	T05441	proline-rich prote	675	107	3.4	354	2	A48931	transmembrane glyc
603	109	3.5	379	2	D85257	extensin-like prot	676	107	3.4	358	1	WMBE38	infected cell prot
604	109	3.5	395	2	I52842	CD43 Lp-3 antigen	677	107	3.4	416	1	SKXLAG	dermal gland prote
605	109	3.5	395	2	A43545	leukostalin CD43 p	678	107	3.4	447	2	A39321	mucin - rat (fragm
606	109	3.5	403	2	S52796	prp12 protein - hu	679	107	3.4	452	2	C41602	transcription fact
607	109	3.5	426	2	JQ1696	pistil extensin-li	680	107	3.4	518	2	F75460	hypothetical prote
608	109	3.5	431	2	T04868	hypothetical prote	681	107	3.4	615	1	KFHU12	coagulation factor
609	109	3.5	437	2	A54595	transcription fact	682	107	3.4	650	2	S59630	dysglycan alpha
610	109	3.5	598	2	C96756	receptor-like prot	683	107	3.4	840	1	S69204	pheromone response
611	109	3.5	613	2	T42671	hypothetical prote	684	107	3.4	915	2	T12526	hypothetical prote
612	109	3.5	833	2	S19087	gene Delta protein	685	107	3.4	1063	1	GNWVR4	structural polypro
613	109	3.5	1611	2	T38236	hypothetical prote	686	107	3.4	1376	2	G00043	osteonidogen - hum

687 107 3.4 1389 2 I58157 periaxin - rat  
 688 107 3.4 2723 2 T03221 probable polyketid  
 689 107 3.4 7463 2 T36248 CDA peptide synth  
 106.5 3.4 304 2 A32993 transcription fact  
 106.5 3.4 353 2 A41558 N-syndecan - rat (   
 691 106.5 3.4 505 2 B46629 mucin 6, gastric (   
 692 106.5 3.4 509 2 D86911 conserved hypothet  
 693 106.5 3.4 509 2 T10013 probable phosphopr  
 694 106.5 3.4 517 2 A01570 internalin, probab  
 695 106.5 3.4 620 2 S06733 hydroxyproline-ric  
 696 106.5 3.4 827 2 AC2963 celB protein [limp  
 697 106.5 3.4 925 2 H36638 protein tif9.20 li  
 698 106.5 3.4 998 2 C75489 conserved hypothet  
 699 106.5 3.4 1003 2 T13856 ksr protein - frui  
 700 106.5 3.4 1161 2 S57180 probable membrane  
 701 106.5 3.4 1184 2 S08382 atrophin-1 - human  
 702 106.5 3.4 1305 2 AB0168 transcription acti  
 703 106.5 3.4 1442 2 T42607 hypohetical prote  
 704 106.5 3.4 1892 2 T18314 probable transform  
 705 106.5 3.4 2090 2 S26058 nuclear receptor c  
 706 106.5 3.4 2453 2 S60254 AtAGP4 - Arabidops  
 707 106.5 3.4 167 2 A33532 mucin SMUC-40 - hu  
 708 106 3.4 216 2 I51920 mucin - rhesus mac  
 709 106 3.4 287 2 S65765 chitinase (EC 3.2.  
 710 106 3.4 405 2 S78691 flagellar hook-len  
 711 106 3.4 431 2 S47538 acrosin (EC 3.4.21  
 712 106 3.4 435 2 D41602 transcription fact  
 713 106 3.4 443 2 B39794 transcription fact  
 714 106 3.4 449 2 A24993 cellulase (EC 3.2.  
 715 106 3.4 567 2 A45977 Rab geranylgeranyl  
 716 106 3.4 666 2 B70803 hypohetical prote  
 717 106 3.4 701 2 D48613 gag polyprotein -  
 718 106 3.4 818 2 T01105 disease resistance  
 719 106 3.4 822 2 T51049 related to nucleol  
 720 106 3.4 850 2 S56015 gastric mucin MUC5  
 721 106 3.4 901 2 A49227 sialidase - Actino  
 722 106 3.4 914 2 T17233 hypohetical prote  
 723 106 3.4 1064 2 A40136 fibropellin Ia - s  
 724 106 3.4 1603 2 A48613 gag/pol polyprotei  
 725 106 3.4 1958 2 B40505 hypohetical prote  
 726 106 3.4 2554 1 TVPF7L kinase-related pro  
 727 106 3.4 3938 2 T42761 Bassoon protein -  
 728 106 3.4 395 2 T01392 leucine-rich repea  
 729 106 3.4 486 2 A41537 DNA-binding protei  
 730 105.5 3.4 510 2 A42750 insulinoma-associa  
 731 105.5 3.4 668 2 T05257 probable disease r  
 732 105.5 3.4 688 2 T04568 protein kinase hom  
 733 105.5 3.4 695 2 S62400 amphiphysin (clone  
 734 105.5 3.4 772 2 T13078 KIAA0392 protein -  
 735 105.5 3.4 780 2 A48143 HF-1 regulatory ei  
 736 105.5 3.4 952 2 S32954 hypohetical prote  
 737 105.5 3.4 1132 2 A35098 MHC class III hist  
 738 105.5 3.4 1172 2 T00065 hypohetical prote  
 739 105.5 3.4 1621 2 T15264 hypohetical prote  
 740 105.5 3.4 1712 2 A38261 masking protein pr  
 741 105.5 3.4 1839 1 RWP6EM genome polyprotein  
 742 105.5 3.4 2477 2 S14428 genome polyprotein  
 743 105.5 3.4 349 2 T05857 fibronectin precur  
 744 105.5 3.4 422 2 I37891 hypohetical prote  
 745 105 3.3 454 2 E75291 interleukin-li rec  
 746 105 3.3 460 2 T33110 probable cell wall  
 747 105 3.3 486 1 A57601 hypohetical prote  
 748 105 3.3 511 1 VGBEF4 transcription fact  
 749 105 3.3 566 2 T34842 glycoprotein C - h  
 750 105 3.3 620 2 A70525 probable transfera  
 751 105 3.3 658 2 T08153 hypohetical prote  
 752 105 3.3 730 2 J01303 cysteine proteinas  
 753 105 3.3 764 2 UC1456 gelatinase B (EC 3  
 754 105 3.3 847 1 A53800 thryoid stimulat  
 755 105 3.3 895 2 I54343 mixed-lineage prot  
 756 105 3.3 976 2 A36355 dystroglycan - hum  
 757 105 3.3 976 2 A36355 protein-tyrosine k

760 105 3.3 1133 2 A54164 sterol regulatory  
 761 105 3.3 1135 2 T30561 Saythe protein - A  
 762 105 3.3 1136 2 S57845 protein-tyrosine k  
 763 105 3.3 1456 2 T01397 Ltr gag/pol polypr  
 764 105 3.3 1658 2 D75489 hypohetical prote  
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 766 105 3.3 2133 2 T30637 hypohetical prote  
 767 105 3.3 2409 1 A60979 versican precursor  
 768 105 3.3 2769 1 UIBO thryoglobulin prec  
 769 104.5 3.3 329 2 T17033 leucine rich repea  
 770 104.5 3.3 407 2 C70816 hypohetical prote  
 771 104.5 3.3 464 2 T35943 probable hydrolyti  
 772 104.5 3.3 530 2 T32812 hypohetical prote  
 773 104.5 3.3 639 2 G02919 transcription fact  
 774 104.5 3.3 662 2 T04856 hypohetical prote  
 775 104.5 3.3 700 2 A42395 lutropin receptor  
 776 104.5 3.3 707 1 A34458 gelatinase B (EC 3  
 777 104.5 3.3 707 1 A53796 probable ABC trans  
 778 104.5 3.3 744 2 T35192 hypohetical prote  
 779 104.5 3.3 755 2 T20950 hypohetical prote  
 780 104.5 3.3 909 1 QRXLU1 hbl receptor i pre  
 781 104.5 3.3 960 1 S28262 kinesin-related pr  
 782 104.5 3.3 1117 2 JC4934 delta-crystallin/E  
 783 104.5 3.3 1194 2 E96624 hypohetical prote  
 784 104.5 3.3 1241 2 T37190 nephrin - human  
 785 104.5 3.3 1505 2 JC4851 hypoxia-inducible  
 786 104.5 3.3 1851 2 T19964 hypohetical prote  
 787 104.5 3.3 1898 2 S46216 leukocyte antigen-  
 788 104.5 3.3 2117 2 T36180 CDA peptide synthe  
 789 104 3.3 232 2 A60095 larval glue protei  
 790 104 3.3 305 2 I49139 lymphotoxin-beta -  
 791 104 3.3 318 2 B64900 hypohetical prote  
 792 104 3.3 326 2 A46676 CB68 homolog macro  
 793 104 3.3 332 2 S43988 protein phosphatas  
 794 104 3.3 360 2 S68209 sds22 protein homo  
 795 104 3.3 365 2 A39481 serum response fac  
 796 104 3.3 426 2 D88103 protein W10G11.6 (   
 797 104 3.3 440 2 T49681 glyceraldehyde-3-p  
 798 104 3.3 470 2 S36536 L2 protein - human  
 799 104 3.3 537 2 A46611 myosin-binding pro  
 800 104 3.3 538 2 S65764 chitinase (EC 3.2.  
 801 104 3.3 593 2 S49525 glycoprotein G - s  
 802 104 3.3 712 1 T46031 gelatinase B (EC 3  
 803 104 3.3 895 2 S20582 dystrophin-associa  
 804 104 3.3 927 2 T24031 hypohetical prote  
 805 104 3.3 1045 2 T16275 hypohetical prote  
 806 104 3.3 1547 2 T28657 hypohetical prote  
 807 104 3.3 1575 2 S68448 blackJack protein,  
 808 104 3.3 1711 2 T31337 synaptojanin, 170K  
 809 104 3.3 1744 2 T34570 1,4-beta-glucanase  
 810 104 3.3 3507 2 T34513 tensin, cardiac mu  
 811 103.5 3.3 206 1 NBHUIB hypohetical prote  
 812 103.5 3.3 264 2 PQ0478 platelet glycoprot  
 813 103.5 3.3 281 2 D70845 pistil extensin-li  
 814 103.5 3.3 393 2 PQ0479 pistil extensin-li  
 815 103.5 3.3 411 1 T55604 platelet glycoprot  
 816 103.5 3.3 419 2 T49252 hypohetical prote  
 817 103.5 3.3 444 1 A39794 transcription fact  
 818 103.5 3.3 489 2 F75591 P49 secreted prote  
 819 103.5 3.3 625 2 A26456 nicotinic acetylch  
 820 103.5 3.3 654 2 T33044 hypohetical prote  
 821 103.5 3.3 889 2 F96637 hypohetical prote  
 822 103.5 3.3 898 2 T20123 hypohetical prote  
 823 103.5 3.3 968 2 T00353 hypohetical prote  
 824 103.5 3.3 975 2 T48974 receptor-protein t  
 825 103.5 3.3 980 2 S54986 regulatory protein  
 826 103.5 3.3 1020 2 A29355 fibronectin - chic  
 827 103.5 3.3 1144 2 A54810 TMV resistance pro  
 828 103.5 3.3 1171 2 T35548 hypohetical prote  
 829 103.5 3.3 1268 2 T31420 C-terminal domain-  
 830 103.5 3.3 1590 2 B86398 protein T7N9.24 li  
 831 103.5 3.3 1603 2 S23810 collagen alpha 1(X  
 832 103.5 3.3 1638 2 A42091 transcription acti

833	103.5	3.3	1733	1	B45344	probable nuclear a	906	102	3.3	567	2	JC5538	Rab geranylgerany
834	103.5	3.3	3739	2	T17410	polyketide synthas	907	102	3.3	585	1	B07747	probable serine/thi
835	103	3.3	168	2	S52994	arabinogalactan-li	908	102	3.3	650	2	B87791	protein B0207.1 [i
836	103	3.3	191	2	E84740	hypothetical prote	909	102	3.3	670	2	S22293	zinc finger protei
837	103	3.3	227	2	T27905	hypothetical prote	910	102	3.3	715	2	T12534	hypothetical prote
838	103	3.3	263	2	S01360	salivary glue prot	911	102	3.3	722	2	I48324	DELTA-like 1 - mou
839	103	3.3	362	2	A44083	meq protein - Mare	912	102	3.3	728	2	D86278	hypothetical prote
840	103	3.3	367	2	AC1328	internalin protein	913	102	3.3	782	2	E84846	probable receptor
841	103	3.3	379	2	T16213	APX-1 protein homo	914	102	3.3	896	1	A35782	cytokine receptor
842	103	3.3	394	2	C84905	probable extensin	915	102	3.3	923	2	A35956	progesterone recep
843	103	3.3	515	2	F70904	hypothetical prote	916	102	3.3	963	2	A55926	DNA binding protei
844	103	3.3	535	1	S76953	protein kinase (EC	917	102	3.3	1008	2	T04462	hypothetical prote
845	103	3.3	550	2	G70597	probable proteinas	918	102	3.3	1021	2	H75423	hypothetical prote
846	103	3.3	575	2	BG0181	Kill2 protein - hu	919	102	3.3	1032	2	D83637	serine/threonine p
847	103	3.3	611	2	S63387	unknown protein [i	920	102	3.3	1052	2	B49120	protein-tyrosine k
848	103	3.3	648	2	T35120	hypothetical prote	921	102	3.3	1069	2	D85383	hypothetical prote
849	103	3.3	701	2	F48613	gag polyprotein -	922	102	3.3	1137	2	A86335	T20H2.9 protein -
850	103	3.3	793	2	JC7390	thyroid stimulatn	923	102	3.3	1166	2	T13958	synGAP-bl protein
851	103	3.3	799	1	TVRTTB	nerve growth facto	924	102	3.3	1249	2	T14270	Ras-GTPase activat
852	103	3.3	813	2	T04313	protein kinase Xa2	925	102	3.3	1293	2	T14259	ras-GTPase-activat
853	103	3.3	851	2	S67285	NUD1 protein - yea	926	102	3.3	1692	2	A33988	adenylate cyclase
854	103	3.3	863	2	A55173	cf-9 protein precu	927	102	3.3	1985	2	S19151	hypothetical prote
855	103	3.3	915	2	S36327	clathrin assembly	928	102	3.3	2218	2	B46683	hypothetical prote
856	103	3.3	1040	2	T23092	TSC-22 protein hom	929	102	3.3	2437	2	S42612	transmembrane prot
857	103	3.3	1121	2	A82809	exodeoxyribonucle	930	102	3.3	2440	2	S39162	transcription coac
858	103	3.3	1199	2	A04670	nuclear envelope p	931	102	3.3	2441	2	S39161	CREB-binding prote
859	103	3.3	1201	2	G86441	unknown protein [i	932	102	3.3	3124	2	A40020	collagen alpha 1(X
860	103	3.3	1275	2	T33369	hypothetical prote	933	102	3.3	5147	1	IJFFTM	cadherin-related t
861	103	3.3	1340	2	A39808	proteoglycan core	934	101.5	3.2	98	2	S53367	mucin 5AC (clone M
862	103	3.3	1541	2	T02831	AAA protein L4171	935	101.5	3.2	173	2	T47176	hypothetical prote
863	103	3.3	1894	2	S54689	protein-tyrosine-p	936	101.5	3.2	244	2	A40428	nonspecific cross-
864	103	3.3	2207	1	GN9Y5P	genome polyprotein	937	101.5	3.2	372	2	T29359	hypothetical prote
865	103	3.3	2481	2	A43908	fibronectin - Afri	938	101.5	3.2	409	2	T43599	yop targeted effec
866	103	3.3	3133	2	S52093	hemocytin - silkw	939	101.5	3.2	547	2	B56573	nuclear pore compl
867	102.5	3.3	217	2	S01358	salivary glue prot	940	101.5	3.2	654	2	C87587	hypothetical prote
868	102.5	3.3	252	2	T04739	hypothetical prote	941	101.5	3.2	657	2	B84869	probable SF16 prot
869	102.5	3.3	316	2	T31880	hypothetical prote	942	101.5	3.2	710	2	T44753	hypothetical prote
870	102.5	3.3	338	2	I53043	transforming prote	943	101.5	3.2	728	2	I50719	C-Delta-1 - chicke
871	102.5	3.3	352	2	S17313	transcription fact	944	101.5	3.2	733	2	A87168	conserved hypothet
872	102.5	3.3	371	2	F70555	hypothetical prote	945	101.5	3.2	833	2	AF2089	hypothetical prote
873	102.5	3.3	379	2	S31719	proline-rich prote	946	101.5	3.2	869	2	A55384	transcription fact
874	102.5	3.3	383	2	B86272	protein F6A14.12	947	101.5	3.2	921	2	S40495	collagen alpha 1(I
875	102.5	3.3	385	2	S53718	homeotic protein d	948	101.5	3.2	947	2	G86420	probable receptor-
876	102.5	3.3	385	2	A54785	preadipocyte facto	949	101.5	3.2	977	2	I52657	seizure-related pr
877	102.5	3.3	421	2	T30709	core protein homol	950	101.5	3.2	984	1	A34076	protein-tyrosine k
878	102.5	3.3	507	1	A32385	erythropoietin rec	951	101.5	3.2	1034	2	JC5569	serine proteinase
879	102.5	3.3	627	2	D75393	serine proteinase,	952	101.5	3.2	1039	2	A85096	hypothetical prote
880	102.5	3.3	674	2	T05264	probable serine/th	953	101.5	3.2	1429	2	S06434	homeotic protein 1
881	102.5	3.3	706	2	E30411	synapsin Ia - bovi	954	101.5	3.2	1668	2	T13748	sex comb protein -
882	102.5	3.3	730	1	I52580	gelatinase B (EC 3	955	101.5	3.2	1733	2	S27939	tensin - chicken
883	102.5	3.3	760	1	S07896	transcription fact	956	101.5	3.2	4543	1	A53102	alpha-2-macroglobu
884	102.5	3.3	904	2	F46170	disease resistance	957	101	3.2	240	2	B24264	proline-rich prote
885	102.5	3.3	907	2	E96636	hypothetical prote	958	101	3.2	249	2	S72619	hypothetical prote
886	102.5	3.3	942	1	JQ1674	protein kinase TMK	959	101	3.2	294	2	T34537	hypothetical prote
887	102.5	3.3	964	2	JC5545	integrin beta-4 pr	960	101	3.2	360	2	S25561	transcription fact
888	102.5	3.3	1013	2	T46422	hypothetical prote	961	101	3.2	373	2	A44478	probable cell grow
889	102.5	3.3	1115	1	IJWSNL	neural cell adhesi	962	101	3.2	401	2	A48423	engrailed homeodm
890	102.5	3.3	1233	2	T15316	hypothetical prote	963	101	3.2	482	2	A44997	mezozoite surface
891	102.5	3.3	1350	2	C36793	hypothetical prote	964	101	3.2	492	2	B85911	probable penicilli
892	102.5	3.3	1367	1	S48478	glucan 1,4-alpha-g	965	101	3.2	574	2	B87619	sensor histidine k
893	102.5	3.3	1678	2	T35547	hypothetical prote	966	101	3.2	610	2	A28798	myosin-light-chain
894	102.5	3.3	1779	2	T31085	xylanase - Caldice	967	101	3.2	613	2	A40497	dihydrolipoamide S
895	102.5	3.3	1813	2	T30564	resistance protein	968	101	3.2	615	1	XXHU	dihydrolipoamide S
896	102.5	3.3	1863	2	S46217	protein-tyrosine-p	969	101	3.2	628	2	JQ0110	hypothetical 69K p
897	102.5	3.3	1875	2	A36429	integrin beta-4 ch	970	101	3.2	671	2	D84648	probable disease r
898	102.5	3.3	2207	2	S09553	genome polyprotein	971	101	3.2	688	2	T18263	S-layer protein -
899	102	3.3	301	2	JQ1663	hybrid proline-ric	972	101	3.2	700	2	D70951	transcription fact
900	102	3.3	307	2	S36779	ribosome-binding p	973	101	3.2	739	2	I56187	transcription fact
901	102	3.3	317	2	A28996	proline-rich prote	974	101	3.2	796	2	T21460	hypothetical prote
902	102	3.3	353	2	B38963	bcsA 5'-region pro	975	101	3.2	846	1	Q0BEC3	HQRFI protein - hu
903	102	3.3	413	2	T49545	hypothetical prote	976	101	3.2	1043	2	A56037	DNA-binding protei
904	102	3.3	532	2	S74453	hypothetical prote	977	101	3.2	1127	2	T32404	hypothetical prote
905	102	3.3	554	1	FOHUMP	macrophage colony-	978	101	3.2	1257	2	S28764	neurocan precursor



979	101	3.2	1367	2	T33819	hypothetical prote	1052	99.5	3.2	352	2	S05500	Ig alpha-1 chain C
980	101	3.2	1513	2	A54895	mucin 2, intestina	1053	99.5	3.2	353	1	AlHU	Ig alpha-1 chain C
981	101	3.2	1792	2	A57075	tensin - chicken (	1054	99.5	3.2	353	2	S36438	EEPR protein - hyd
982	101	3.2	2946	2	T15840	hypothetical prote	1055	99.5	3.2	375	1	TDH0M4	monocyte surface g
983	101	3.2	3176	2	CGH3A	collagen alpha 3(V	1056	99.5	3.2	383	1	VGBEKG	glycoprotein precu
984	100.5	3.2	138	2	D96715	protein F4N2.10 [i	1057	99.5	3.2	387	2	B49175	Motch A protein -
985	100.5	3.2	262	2	T33408	hypothetical prote	1058	99.5	3.2	392	2	B48423	homeoic protein e
986	100.5	3.2	262	2	E88400	protein H34124.2 [	1059	99.5	3.2	393	1	VGBED2	glycoprotein D - h
987	100.5	3.2	269	2	T26957	hypothetical prote	1060	99.5	3.2	420	2	T46910	hypothetical prote
988	100.5	3.2	274	2	T46041	hypothetical prote	1061	99.5	3.2	451	2	JC4199	heat-shock protein
989	100.5	3.2	283	2	E88597	protein Y4703B.6 [	1062	99.5	3.2	476	1	C70986	probable serine/th
990	100.5	3.2	314	2	T48514	hypothetical prote	1063	99.5	3.2	491	2	F70699	probable pbpA prot
991	100.5	3.2	384	2	T50921	carbamoyl-phosphat	1064	99.5	3.2	530	2	S52215	hypothetical prote
992	100.5	3.2	401	2	S65138	glycoprotein antiq	1065	99.5	3.2	539	2	T28770	hypothetical prote
993	100.5	3.2	440	2	JC7807	Wiskott-Aldrich sy	1066	99.5	3.2	647	2	T43952	hypothetical prote
994	100.5	3.2	504	2	AG2373	hypothetical prote	1067	99.5	3.2	665	2	S62328	hypothetical prote
995	100.5	3.2	504	2	S56745	mucin (clone pGM31	1068	99.5	3.2	702	2	A86383	kinesin-like DNA b
996	100.5	3.2	512	2	E59437	F02569.2 protein [	1069	99.5	3.2	802	2	T24293	76.4K protein kina
997	100.5	3.2	597	2	J00107	hypothetical 66K p	1070	99.5	3.2	851	2	AD1427	hypothetical prote
998	100.5	3.2	677	2	T39713	zinc finger protei	1071	99.5	3.2	853	1	IJBQNC	internalin, probab
999	100.5	3.2	798	2	T34248	hypothetical prote	1072	99.5	3.2	886	2	T35469	neural cell adhesi
1000	100.5	3.2	906	2	A43817	transforming prote	1073	99.5	3.2	903	2	T19209	probable Atp /GTP
1001	100.5	3.2	975	2	S33121	homeotic protein C	1074	99.5	3.2	949	2	T24294	probable protein k
1002	100.5	3.2	1024	2	T27631	hypothetical prote	1075	99.5	3.2	958	2	E82994	hypothetical prote
1003	100.5	3.2	1030	2	H88859	protein 2C518.2 [i	1076	99.5	3.2	961	1	TSHUP4	glycine cleavage s
1004	100.5	3.2	1106	1	TVHUGL	transforming prote	1077	99.5	3.2	1013	2	T33470	thrombospondin 4 p
1005	100.5	3.2	1131	2	F96662	hypothetical prote	1078	99.5	3.2	1016	2	T41720	hypothetical prote
1006	100.5	3.2	1138	1	S24066	protein-tyrosine k	1079	99.5	3.2	1056	2	A53767	hypothetical prote
1007	100.5	3.2	1220	2	T48928	disease resistance	1080	99.5	3.2	1122	2	T47424	mucin MUC5B, trach
1008	100.5	3.2	1273	2	S58782	SEC31 protein - ye	1081	99.5	3.2	1220	2	T06403	hypothetical prote
1009	100.5	3.2	1323	2	T30253	spalt protein - mo	1082	99.5	3.2	1390	2	T31353	resistance complex
1010	100.5	3.2	2327	2	T42630	aggreca - bovine	1083	99.5	3.2	1473	2	T31422	polyprotein - Arab
1011	100.5	3.2	2562	2	T14266	xin protein - chic	1084	99.5	3.2	1742	2	T17120	C-terminal domain-
1012	100.5	3.2	3562	2	A47171	chondroitin sulfat	1085	99.5	3.2	3869	2	A48205	cellulase (EC 3.2.
1013	100.5	3.2	4548	1	S00657	apoptoin(a) (EC	1086	99	3.2	154	2	PQ0476	All-1 protein +GTP
1014	100	3.2	230	2	A56210	neu differentiatio	1087	99	3.2	214	2	T09854	plactil extensin-li
1015	100	3.2	311	2	B86211	hypothetical prote	1088	99	3.2	307	1	GSFE3	proline-rich cell
1016	100	3.2	334	2	G02409	protein kinase C-b	1089	99	3.2	329	2	B41344	salivary glue prot
1017	100	3.2	366	2	S61796	T-cell-specific tr	1090	99	3.2	329	2	D41344	lutropin-choriogon
1018	100	3.2	367	2	A33950	yopM protein - Yer	1091	99	3.2	331	2	C41344	lutropin-choriogon
1019	100	3.2	474	2	S15921	protein TPX-VT3 -	1092	99	3.2	358	2	T01296	leucine-rich repea
1020	100	3.2	476	2	C39481	serum response fac	1093	99	3.2	415	1	A34170	acrosin (EC 3.4.21
1021	100	3.2	510	2	H84824	En/Spm-like transp	1094	99	3.2	428	2	S45361	LR847 protein - fr
1022	100	3.2	535	2	T17212	hypothetical prote	1095	99	3.2	447	2	T34952	probable lipoprote
1023	100	3.2	549	2	C87719	protein R119.6 [im	1096	99	3.2	466	2	T06416	cysteine proteinas
1024	100	3.2	556	2	D70940	probable PPE prote	1097	99	3.2	511	2	AC0941	probable ABC trans
1025	100	3.2	562	2	S75308	DNA ligase (EC 6.5	1098	99	3.2	543	2	S25128	61K protein - Auto
1026	100	3.2	596	2	G75457	tetratricopeptide	1099	99	3.2	564	2	F75381	gene gli protein -
1027	100	3.2	628	2	S44138	polyadenylate-bind	1100	99	3.2	569	2	C75588	probable two-compo
1028	100	3.2	673	2	AF1143	internalin protein	1101	99	3.2	616	2	C75588	conserved hypothet
1029	100	3.2	698	2	T51915	hypothetical prote	1102	99	3.2	638	2	T51383	receptor protein k
1030	100	3.2	698	2	T17261	hypothetical prote	1103	99	3.2	641	2	C84726	probable receptor-
1031	100	3.2	699	2	T09069	probable CAMP-resp	1104	99	3.2	686	2	F96542	probable protein k
1032	100	3.2	713	2	T44447	neuregulin-3 [limp	1105	99	3.2	696	2	A41344	lutropin-choriogon
1033	100	3.2	725	2	T01268	leucine-rich repea	1106	99	3.2	701	2	S61239	hypothetical prote
1034	100	3.2	756	2	C87432	hypothetical prote	1107	99	3.2	770	1	S30233	transcription fact
1035	100	3.2	776	2	A46583	neuroendocrine-spe	1108	99	3.2	814	2	JC7389	thyroid stimulat
1036	100	3.2	881	2	T01269	serine/threonine-s	1109	99	3.2	860	2	C86203	hypothetical prote
1037	100	3.2	1109	2	C84545	probable disease r	1110	99	3.2	940	2	H86420	probable receptor-
1038	100	3.2	1161	2	T45294	hypothetical prote	1111	99	3.2	963	2	T19140	hypothetical prote
1039	100	3.2	1182	2	I48378	hairless protein -	1112	99	3.2	1000	2	C82630	serine proteinase
1040	100	3.2	1240	2	T06404	resistance complex	1113	99	3.2	1097	2	T49187	hypothetical prote
1041	100	3.2	1420	2	T37781	probable cytoskele	1114	99	3.2	1147	2	T42627	ADP-ribosylation f
1042	100	3.2	1687	2	T30176	EGF repeat transme	1115	99	3.2	1217	2	T52348	disease resistance
1043	100	3.2	1791	2	T02345	hypothetical prote	1116	99	3.2	1317	2	T03748	apoptosis associat
1044	100	3.2	1802	2	T00020	bacterial blight-r	1117	99	3.2	1405	2	T04426	hypothetical prote
1045	100	3.2	1897	1	TDHULK	leukocyte antigen-	1118	99	3.2	1532	2	A61262	collagen alpha 1(X
1046	100	3.2	2459	2	A21336	peptide synthetase	1119	99	3.2	1538	2	E70874	probable ppsb prot
1047	99.5	3.2	108	2	S08315	cell wall protein	1120	99	3.2	1694	2	S50085	sialoadhesin . mou
1048	99.5	3.2	177	2	T07642	PEARLI 1 protein h	1121	99	3.2	1799	1	S44920	ZK688.5 protein -
1049	99.5	3.2	230	2	A44074	probable EGF-like	1122	99	3.2	2029	1	TDFFLK	protein-tyrosine-p
1050	99.5	3.2	280	2	I48713	Phox2 homeodomain	1123	99	3.2	2088	2	E71436	hypothetical prote
1051	99.5	3.2	293	2	C75421	hypothetical prote	1124	99	3.2	6420	2	T30283	polyketide synthas

1125	98.5	3.1	230	2	T22763	hypothetical prote	1198	97.5	3.1	362	2	S22395	fetuin precursor -
1126	98.5	3.1	254	2	D88560	protein F58A4.1 [i	1199	97.5	3.1	429	2	JC4965	eikl protein - mou
1127	98.5	3.1	342	2	I77461	lutetizing hormon	1200	97.5	3.1	460	2	T23087	hypothetical prote
1128	98.5	3.1	349	2	T15422	hypothetical prote	1201	97.5	3.1	464	2	S22697	extensin - Volvox
1129	98.5	3.1	379	2	S50125	larval glue protei	1202	97.5	3.1	497	2	F83634	hypothetical prote
1130	98.5	3.1	385	2	T18180	proline-rich prote	1203	97.5	3.1	511	2	T43282	alp21 protein - fi
1131	98.5	3.1	393	2	S62335	171-7 protein - fr	1204	97.5	3.1	521	2	S54266	glycoprotein gc -
1132	98.5	3.1	434	1	A35005	u-plasminogen acti	1205	97.5	3.1	531	2	B55066	tyrosine decarboxy
1133	98.5	3.1	464	2	T26553	hypothetical prote	1206	97.5	3.1	563	2	A75594	ferredoxin-nitrite
1134	98.5	3.1	486	2	B39481	serum response fac	1207	97.5	3.1	574	1	A48501	probable protein-1
1135	98.5	3.1	514	2	A44100	cell adhesion mole	1208	97.5	3.1	587	2	T41653	probable transcrip
1136	98.5	3.1	633	2	T47346	receptor protein k	1209	97.5	3.1	614	2	T33149	hypothetical prote
1137	98.5	3.1	700	2	I77463	lutetizing hormon	1210	97.5	3.1	626	2	B70754	probable serine/th
1138	98.5	3.1	700	2	A49744	lutropin-choriogon	1211	97.5	3.1	627	1	JC8534	protein kinase 1 (
1139	98.5	3.1	707	2	T22808	PTB-associated spl	1212	97.5	3.1	627	2	AB0535	hypothetical prote
1140	98.5	3.1	770	2	T22808	hypothetical prote	1213	97.5	3.1	631	1	A36749	transcription fact
1141	98.5	3.1	803	2	F59433	RhoGAP protein [im	1214	97.5	3.1	662	2	D40228	neurexin II-beta p
1142	98.5	3.1	817	2	A42112	mucin-like peptide	1215	97.5	3.1	676	1	EDBE23	immediate-early pr
1143	98.5	3.1	862	2	E88594	protein Y48A6B.11	1216	97.5	3.1	710	2	D96728	hypothetical prote
1144	98.5	3.1	885	2	B86257	NBS/LRR disease re	1217	97.5	3.1	754	2	AC2807	OmpA family protei
1145	98.5	3.1	921	2	D86293	F7H2.22 protein -	1218	97.5	3.1	754	2	B97586	hypothetical prote
1146	98.5	3.1	947	2	T26314	hypothetical prote	1219	97.5	3.1	814	2	G02390	disintegrin-like m
1147	98.5	3.1	1087	2	T31100	probable potassium	1220	97.5	3.1	817	2	S51342	verprolin - yeast
1148	98.5	3.1	1272	2	T30248	fragile X mental x	1221	97.5	3.1	830	2	T17672	chitinase-like pro
1149	98.5	3.1	1281	2	T00346	hypothetical prote	1222	97.5	3.1	893	2	H96651	protein T318.19 [
1150	98.5	3.1	1309	2	T00078	probable RNA-direc	1223	97.5	3.1	909	1	A54809	disease resistance
1151	98.5	3.1	1396	2	A44453	translation initia	1224	97.5	3.1	921	2	AE0332	conserved hypothet
1152	98.5	3.1	1774	2	B56101	collagen alpha 1(X	1225	97.5	3.1	929	2	T52517	hypothetical prote
1153	98.5	3.1	2180	2	T29764	hypothetical prote	1226	97.5	3.1	948	2	F87693	peptidase, M16 fam
1154	98.5	3.1	2339	2	A42566	omega-conotoxin-se	1227	97.5	3.1	1006	2	G86292	hypothetical prote
1155	98	3.1	182	2	T07641	PEARL1 protein h	1228	97.5	3.1	1258	2	JC5765	inositol polyphosp
1156	98	3.1	291	2	AF0123	probable antigenic	1229	97.5	3.1	1392	2	T51947	probable transcrip
1157	98	3.1	296	2	A56943	sensory/motor neur	1230	97.5	3.1	1715	2	C40228	neurexin II-alpha
1158	98	3.1	303	2	S40973	hypothetical prote	1231	97.5	3.1	1748	1	JQ1555	genome polyprotein
1159	98	3.1	352	2	S09266	Ig alpha chain C r	1232	97	3.1	191	2	F84522	probable proline-r
1160	98	3.1	416	1	A42879	advanced glycosyla	1233	97	3.1	238	2	T23867	hypothetical prote
1161	98	3.1	442	2	S50062	cell wall glycopro	1234	97	3.1	238	2	T28419	hypothetical prote
1162	98	3.1	499	2	A12449	hypothetical prote	1235	97	3.1	330	2	T05717	probable extensin
1163	98	3.1	514	2	A56201	transcription fact	1236	97	3.1	355	2	B26883	neural cell adhesi
1164	98	3.1	534	2	S21961	proline-rich prote	1237	97	3.1	357	2	A33364	GDF-1 embryonic gr
1165	98	3.1	535	2	S65762	chitinase (EC 3.2.	1238	97	3.1	379	2	AE3003	conserved hypothet
1166	98	3.1	538	2	I68093	PRR2 delta - human	1239	97	3.1	395	2	A86166	protein F21B7.6 [i
1167	98	3.1	538	2	A70836	hypothetical prote	1240	97	3.1	397	2	T00914	leucine-rich repea
1168	98	3.1	553	1	A42499	hypothetical prote	1241	97	3.1	400	1	A28172	spasmolysin precu
1169	98	3.1	560	1	WFHUM	mullerian inhibiti	1242	97	3.1	421	1	S11674	acrosin (EC 3.4.21
1170	98	3.1	605	2	S48940	hypothetical prote	1243	97	3.1	428	1	TVHUEK	transforming prote
1171	98	3.1	614	2	S27962	modulator recognit	1244	97	3.1	452	2	D98280	hypothetical 28.0K
1172	98	3.1	631	2	C89243	protein F28C1.3 [i	1245	97	3.1	459	2	T35317	probable serine/th
1173	98	3.1	631	2	T21471	hypothetical prote	1246	97	3.1	483	2	T02226	NBS-LRR type resis
1174	98	3.1	715	2	S76492	lipoprotein nlpD -	1247	97	3.1	500	2	D97302	hypothetical prote
1175	98	3.1	728	2	H59435	phosphoinositide-3	1248	97	3.1	530	2	G70904	hypothetical prote
1176	98	3.1	750	2	T42616	probable envelope	1249	97	3.1	601	2	T22025	hypothetical prote
1177	98	3.1	788	1	Q0BEE3	HHLF1 protein - hu	1250	97	3.1	601	2	D89711	protein F40E10.4 [
1178	98	3.1	856	2	T43631	serine/threonine k	1251	97	3.1	632	2	T02627	hypothetical prote
1179	98	3.1	889	2	C86257	resistance to pseu	1252	97	3.1	701	1	FORVIR	gag polyprotein -
1180	98	3.1	896	2	S36326	clathrin assembly	1253	97	3.1	860	2	JC4566	chitinase (EC 3.2.
1181	98	3.1	1006	2	JC5526	kinase-defective E	1254	97	3.1	966	2	D96662	hypothetical prote
1182	98	3.1	1216	2	T34101	hypothetical prote	1255	97	3.1	967	2	G96637	hypothetical prote
1183	98	3.1	1372	2	T25933	hypothetical prote	1256	97	3.1	1123	2	A39962	kinase-related tra
1184	98	3.1	1522	2	H88380	protein T22F7.3 [i	1257	97	3.1	1214	2	T47438	disease resistance
1185	98	3.1	1873	2	A55645	calcium channel, v	1258	97	3.1	1265	1	A37967	neural cell adhesi
1186	98	3.1	2115	2	S38480	nonstructural prot	1259	97	3.1	1690	2	T35694	ATP dependent DNA
1187	98	3.1	3190	2	T13828	CREB-binding prote	1260	97	3.1	1734	2	A54602	microtubule-associ
1188	98	3.1	3623	2	T08618	intrinsic factor-B	1261	97	3.1	2055	2	T00093	hypothetical prote
1189	98	3.1	3635	2	T10053	laminin alpha 5 ch	1262	97	3.1	2205	1	GNVY2W	genome polyprotein
1190	98	3.1	3871	2	T22812	hypothetical prote	1263	97	3.1	3034	2	T14119	seven-pass transme
1191	98	3.1	5069	2	T17464	rifamycin polyketi	1264	96.5	3.1	346	2	S19129	proline-rich prote
1192	97.5	3.1	215	2	S55925	probable arabinoga	1265	96.5	3.1	350	2	E75341	peptidyl-prolyl ci
1193	97.5	3.1	266	1	A35037	insulin-like growt	1266	96.5	3.1	419	2	G70602	hypothetical prote
1194	97.5	3.1	268	2	S71830	transcription coac	1267	96.5	3.1	430	2	I48755	msApla - mouse
1195	97.5	3.1	277	2	A46241	interferon respons	1268	96.5	3.1	444	2	B36389	transcription fact
1196	97.5	3.1	306	2	T09067	extensin-like prot	1269	96.5	3.1	485	1	S22543	transcription fact
1197	97.5	3.1	338	1	TVMSFB	transforming prote	1270	96.5	3.1	487	2	F70765	hypothetical prote

1271	96.5	3.1	514	2	A31643	cell adhesion 80K	1344	95.5	3.0	1159	2	I38465	probable potassium
1272	96.5	3.1	528	2	B75310	conserved hypothet	1345	95.5	3.0	1255	2	T31085	diaphanous protein
1273	96.5	3.1	574	2	B35149	ipah protein - Shi	1346	95.5	3.0	1256	2	T03096	CD0 protein - rat
1274	96.5	3.1	598	2	T42070	protein serine/thr	1347	95.5	3.0	1331	2	T49813	related to gastric
1275	96.5	3.1	635	2	F70874	probable membrane	1348	95.5	3.0	1630	2	T00390	KIAA0614 protein -
1276	96.5	3.1	637	2	A75342	hypothetical prote	1349	95.5	3.0	2761	2	T21064	hypothetical prote
1277	96.5	3.1	646	2	T34532	hypothetical prote	1350	95	3.0	175	2	I38408	neu differentiation
1278	96.5	3.1	654	2	T45017	chemotaxis histidi	1351	95	3.0	227	2	C29149	proline-rich prote
1279	96.5	3.1	669	2	T08827	hypothetical prote	1352	95	3.0	227	2	G70555	hypothetical prote
1280	96.5	3.1	796	2	E96654	hypothetical prote	1353	95	3.0	239	2	S25618	hypothetical prote
1281	96.5	3.1	825	1	EBEXD	immediate-early pr	1354	95	3.0	241	2	D43273	heregulin precursor
1282	96.5	3.1	1021	2	A86421	Receptor-like seri	1355	95	3.0	273	2	C70551	hypothetical prote
1283	96.5	3.1	1209	2	T00373	hypothetical prote	1356	95	3.0	326	2	A59232	ABA-responsive pro
1284	96.5	3.1	1241	2	T18311	hypothetical prote	1357	95	3.0	338	2	T06336	proline-rich prote
1285	96.5	3.1	1557	2	T42859	probable serine/th	1358	95	3.0	385	1	I39498	Grp cyclohydrolase
1286	96.5	3.1	1282	2	T02717	DNA-binding protei	1359	95	3.0	413	2	T52617	hypothetical prote
1287	96.5	3.1	2352	2	T30201	Notch homolog prot	1360	95	3.0	477	2	S53362	mucin 5AC (clone J
1288	96.5	3.1	26926	1	I38344	titin, cardiac mus	1361	95	3.0	494	1	A29079	lymphocyte surface
1289	96	3.1	214	2	T10737	extensin-like cell	1362	95	3.0	502	2	A55197	Wiskott-Aldrich sy
1290	96	3.1	240	2	A4264	proline-rich prote	1363	95	3.0	636	2	I61718	neu differentiation
1291	96	3.1	287	2	C75494	cell division prot	1364	95	3.0	653	2	B84682	hypothetical prote
1292	96	3.1	346	2	JA0159	cysteine proteinas	1365	95	3.0	662	2	I61722	neu differentiation
1293	96	3.1	445	2	T05887	hypothetical prote	1366	95	3.0	667	2	T17221	hypothetical prote
1294	96	3.1	451	2	D88395	protein F53A3.6 [i	1367	95	3.0	673	2	T48012	hypothetical prote
1295	96	3.1	483	2	S12741	transcription fact	1368	95	3.0	705	2	A35621	spore germination
1296	96	3.1	537	1	FOVGV	gag polyprotein -	1369	95	3.0	712	2	G02512	interleukin-1 rece
1297	96	3.1	580	2	T43481	probable mucin DKF	1370	95	3.0	760	2	T16726	hypothetical prote
1298	96	3.1	594	2	S33561	ref(2)P protein -	1371	95	3.0	776	2	C96554	unknown protein [i
1299	96	3.1	598	2	T48822	hypothetical prote	1372	95	3.0	799	2	T48889	serine/threonine p
1300	96	3.1	635	1	WMBEW	capsid protein - h	1373	95	3.0	846	2	S52418	Grp-binding regula
1301	96	3.1	858	1	IJRTNC	neural cell adhesi	1374	95	3.0	891	2	G84693	probable proline-r
1302	96	3.1	883	2	A96662	hypothetical prote	1375	95	3.0	901	2	A44825	phosphoprotein, sy
1303	96	3.1	907	2	AD2951	cell division prot	1376	95	3.0	903	2	S60257	meltrin alpha - mo
1304	96	3.1	910	2	H98331	McxB-related prote	1377	95	3.0	943	2	T34847	probable transcrip
1305	96	3.1	969	2	A75634	hypothetical prote	1378	95	3.0	1024	2	S18251	collagen alpha 1(X
1306	96	3.1	1216	2	T26104	insulin receptor s	1379	95	3.0	1209	2	T13153	peptide synthetase
1307	96	3.1	1231	2	S30185	phosphoinositide-b	1380	95	3.0	1324	2	T14070	retrotransposon li
1308	96	3.1	1544	2	E59431	protein-tyrosine-p	1381	95	3.0	1474	2	B85188	polyketide synthas
1309	96	3.1	1615	2	B49502	MEGF8 protein - hu	1382	95	3.0	1616	2	G70668	ice nucleation pro
1310	96	3.1	1737	2	T00209	protein-tyrosine-p	1383	95	3.0	1731	2	AB3045	hypothetical prote
1311	96	3.1	1767	2	A49502	genome polyprotein	1384	95	3.0	1731	2	B98241	saframycin Mx1 syn
1312	96	3.1	1844	1	IRWPTM	transcription fact	1385	95	3.0	1770	2	T18551	collagen alpha 1(X
1313	96	3.1	2529	2	A56923	zonadhesin - mouse	1386	95	3.0	1806	1	CGHUIE	hypothetical prote
1314	96	3.1	5376	2	T42215	proline-rich prote	1387	95	3.0	2090	2	T30075	transcription fact
1315	95.5	3.0	188	2	D29149	conserved hypothet	1388	95	3.0	2148	2	A56011	adenomatous polypo
1316	95.5	3.0	284	2	F95320	monocyte surface g	1389	95	3.0	2274	2	T30258	laminin alpha-1 ch
1317	95.5	3.0	366	1	TDMSM4	threonine synthase	1390	95	3.0	3084	1	MMMSA	high sulfur zein p
1318	95.5	3.0	382	2	S75823	vasodilator-stimul	1391	94.5	3.0	211	2	T03381	hypothetical prote
1319	95.5	3.0	384	2	S51796	hypothetical prote	1392	94.5	3.0	255	2	B75309	proline-rich prote
1320	95.5	3.0	435	2	T46443	cellular hepatitis	1393	94.5	3.0	255	2	S31096	hypothetical prote
1321	95.5	3.0	451	2	S71754	probable PE protei	1394	94.5	3.0	270	2	E87649	microtubule-associ
1322	95.5	3.0	479	2	D70676	succinate semialde	1395	94.5	3.0	277	2	I38857	peptidase, M23/M37
1323	95.5	3.0	486	2	AS2975	atK protein (US94	1396	94.5	3.0	298	2	H87533	transcription regu
1324	95.5	3.0	486	2	A98308	hypothetical prote	1397	94.5	3.0	301	2	D87684	probable transcrip
1325	95.5	3.0	501	2	S76563	erythropoietin rec	1398	94.5	3.0	358	2	A61188	hypothetical prote
1326	95.5	3.0	507	1	A46713	hypothetical prote	1399	94.5	3.0	375	2	H82988	conserved hypothet
1327	95.5	3.0	553	2	C75318	fibropellin C prec	1400	94.5	3.0	393	2	E82283	probable amidase P
1328	95.5	3.0	570	2	T44836	hypothetical prote	1401	94.5	3.0	464	2	A83557	hypothetical prote
1329	95.5	3.0	571	2	T43456	probable secD - My	1402	94.5	3.0	569	2	T19128	tumor-associated m
1330	95.5	3.0	573	2	B70726	myocyte-specific e	1403	94.5	3.0	630	2	A39344	probable cell wall
1331	95.5	3.0	624	2	T49366	hypothetical prote	1404	94.5	3.0	665	2	E75461	Gelatinase B (EC 3
1332	95.5	3.0	630	2	T31798	F10E9.6 protein -	1405	94.5	3.0	708	2	JC4364	hypothetical prote
1333	95.5	3.0	650	2	S44806	E75 B steroid rece	1406	94.5	3.0	719	2	T33170	tenascin-X - mouse
1334	95.5	3.0	685	2	C56591	serine/threonine-s	1407	94.5	3.0	860	2	I48839	collagen alpha 1(I
1335	95.5	3.0	710	1	S70965	hypothetical prote	1408	94.5	3.0	921	2	S42617	hypothetical prote
1336	95.5	3.0	722	2	T23259	hypothetical prote	1409	94.5	3.0	985	2	T06049	hypothetical prote
1337	95.5	3.0	749	2	E87599	nerve growth facto	1410	94.5	3.0	1006	2	T00050	neural cell adhesi
1338	95.5	3.0	790	1	TVHUTT	protein T23E7.2b [	1411	94.5	3.0	1092	1	JN0635	gene u-shaped proc
1339	95.5	3.0	880	2	D89756	probable receptor-	1412	94.5	3.0	1191	2	T13850	immediate-early pr
1340	95.5	3.0	943	2	E84429	protein-tyrosine k	1413	94.5	3.0	1487	1	EDBEE1	collagen alpha 4(I
1341	95.5	3.0	987	2	A54092	zinc finger/leucin	1414	94.5	3.0	1690	1	CGHUIB	probable receptor
1342	95.5	3.0	1027	2	I38759	hydroxymethylgluta	1415	94.5	3.0	2062	2	G96602	protein-tyrosine-p
1343	95.5	3.0	1054	2	A30239		1416	94.5	3.0	2302	2	T14328	

1417 94.5 3.0 2386 1 PNHU  
1418 94.5 3.0 2484 2 T26216  
1419 94.5 3.0 2607 2 T26215  
1420 94 3.0 157 2 T20234  
1421 94 3.0 263 2 S57346  
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1453 94 3.0 1331 2 A48954  
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1462 93.5 3.0 305 2 T46721  
1463 93.5 3.0 352 2 T06482  
1464 93.5 3.0 362 2 S61924  
1465 93.5 3.0 391 2 I50702  
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1467 93.5 3.0 461 1 A35356  
1468 93.5 3.0 490 2 AG1107  
1469 93.5 3.0 522 2 T36501  
1470 93.5 3.0 530 2 A53437  
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1472 93.5 3.0 577 2 T18116  
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1474 93.5 3.0 691 2 B75622  
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1476 93.5 3.0 719 2 F96577  
1477 93.5 3.0 854 2 A96574  
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1479 93.5 3.0 919 2 F83257  
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1483 93.5 3.0 2109 2 T33247  
1484 93.5 3.0 2150 2 T32497  
1485 93.5 3.0 2295 2 C88369  
1486 93.5 3.0 3375 2 T19821  
1487 93 3.0 209 2 T02262  
1488 93 3.0 221 2 T07079  
1489 93 3.0 235 2 PC2022

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1491 93 3.0 338 2 S38030  
1492 93 3.0 384 2 H70580  
1493 93 3.0 413 2 AH2743  
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1495 93 3.0 438 2 G87675  
1496 93 3.0 453 2 B42093  
1497 93 3.0 465 2 B82515  
1498 93 3.0 558 2 T50742  
1499 93 3.0 560 1 JC4795  
1500 93 3.0 586 2 H86914

salivary glue prot  
suppressor protein  
hypothetical prote  
conserved hypothet  
hypothetical prote  
arylesterase-relat  
serum response fac  
alpha-L-fucosidase  
protoporphyrin IX  
plasma hyaluronan-  
conserved hypothet

RESULT 1  
JC5239  
insulin-like growth factor acid-labile chain - baboon  
C:Species: Papio sp. (baboon)  
C:Date: 17-Apr-1997 #sequence\_revision 09-May-1997 #text\_change 09-May-1997  
C:Accession: JC5239  
R:Delhanty, P.; Baxter, R.C.  
Biochem. Biophys. Res. Commun. 227, 897-902, 1996  
A:Title: The cloning and expression of the baboon acid-labile subunit of the insulin-like  
A:Reference number: JC5239; MUID:97040714; PMID:8886027  
A:Contents: liver  
A:Accession: JC5239  
A:Molecule type: mRNA  
A:Residues: 1-605 <DEL>  
C:Comment: This factor is structurally related to proinsulin and have insuline-like metal

Query Match 10.3%; Score 322; DB 2; Length 605;  
Best Local Similarity 36.2%; Pred. No. 2.6e-11;  
Matches 100; Conservative 39; Mismatches 97; Indels 40; Gaps 11;

QY 7 LLLPLLLL-LALG-----PGVQG-----CPSGCOCQPO-----TVFCTARQGT 45  
DB 8 LALALLLSWALGPRSLGAEFGPTGAEFGACATCATCAGYDVEVNELSVFCSSRNLTR 67  
QY 46 VPRDVPDVTGVLVFPENGITMLDASSFAGLGLQLLDLSQNTIASLRLLPRLLL----- 98  
DB 68 LPDGPFGTQALWLDSSNLLSIPPAFRNLSSLAFLNQGQGLGLE-PQALLGLENLCH 126  
QY 99 LDLSHNSLALPGGILDTANVEALRAGLG---LQQLDEGLFSRLRNHLDLVDNDQLER 155  
DB 127 LHLERNQLRSLAVGTF--AYTPALALLGLSNRNRLSRLEDGLFEGLGNLWDLNGLWNSLAV 184  
QY 156 VP-PVIRGLRGLTRLRAGNTRIAQLRPEDLAGLALQELDVSNLSLQALPGDLSGLFPR 214  
DB 185 LPDAAFRGLGLRGLREVLNAGN-RLAYLQPALFSGLAELRELDLSRNALRAKANVFAQLPR 243  
QY 215 LFLIAAARNPFCVCLPSWFG---PWVRESHVTLA 246  
DB 244 LQKYLDRNLIAAVAPGAFGLKALRWLDLSHNRVA 279

RESULT 2  
A41915  
insulin-like growth factor-binding complex acid-labile chain precursor - human  
N:Alternate names: Acid-Labile Subunit (ALS)  
C:Species: Homo sapiens (man)  
C:Date: 31-Dec-1993 #sequence\_revision 31-Dec-1993 #text\_change 09-Jul-2004  
C:Accession: A41915  
R:Leong, S.R.; Baxter, R.C.; Camerato, T.; Dai, J.; Wood, W.I.  
Mol. Endocrinol. 6, 870-876, 1992  
A:Title: Structure and functional expression of the acid-labile subunit of the insulin-l  
A:Reference number: A41915; MUID:92357025; PMID:1379671  
A:Accession: A41915  
A:Status: preliminary  
A:Molecule type: mRNA; protein  
A:Residues: 1-605 <LEO>  
A:Cross-references: UNIPROT:P35858; GB:M86826; NID:g184807; PIDN:AAA36047.1; PID:g184808



```
QY 254 -HPPKNAAGRLLE--LDYADFQCPATTTATVPTTRPVVREP-----TA 295
Db : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 273 YKYPKGCGPTLGDGDTLDYVPEEDTEGDKVRATRTVVKPTKAHTTPWGLFYSWSTA 332
Db : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 296 LSSSLAPTWSLTPATE-----APSPPTAPPTVGPV---PQ 330
Db : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 333 SLDSQMPSSLHPQSTKSTQTFPPRWTNFTLHMESITFTPKSTTEPTSPPTSEBV 392
Db : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 331 PDCPSTCLNGTCHLGRHHLACLCPGFTGLYCESQMGQTRPSPTVTPRPRSLT 390
Db : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 393 PEPAPNWTLETP-----SPTTPE-----PTSEAPSPPTPEPTPIPT 431
Db : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 391 LGIEP---VSPTSRLVGLORYLGSS--VOLRSRLTYRNLSGPKRLVTLR--LPASLA 443
Db : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 432 IATSPITLVSATSLTPKSTFLTITTFKVSLLSTKTKTIPELDQPKRLGVLGCHLESSRN 491
Db : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 444 EYTVTLRNNATYVVCVMDLG-----PCRV-PEGEEACGEAHT 480
Db : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 492 D---PFLHPD---FCLLPGLFVVLGLFWLLFASVVVLIILLWSVGHVKPQALDSSGQAA 545
Db : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 481 PPAVSHNAPVTOAREGNLP---LII---APALAAVLLAALAAVGAACVVRGRAMAA 533
Db : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 546 TTATQTHLELORGQVTVPRAWLLFLRGLSLTFRSSLFLWRPNRGRVGPVAGRRPSAL 605
Db : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 534 AQDKGQ 539
Db : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 606 SQGRGQ 611
Db : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 4
JC1282
insulin-like growth factor-binding protein acid labile chain precursor - rat
C:Species: Rattus norvegicus (Norway rat)
C:Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 09-Jul-2004
C:Accession: JC1282
R:Pal, J.; Baxter, R.C.
Biochem. Biophys. Res. Commun. 188, 304-309, 1992
A:Title: Molecular cloning of the acid-labile subunit of the rat insulin-like growth fac
A:Reference number: JC1282; MUID:93038676; PMID:1384485
A:Accession: JC1282
A:Molecule type: mRNA
A:Residues: 1-603 <DAI>
A:Cross-references: UNIPROT:P35859; GB:S46785; NID:G258002; PIDN:AAB23770.2; PID:G570593
A:Experimental source: liver
A:Note: the authors translated the codon AAG for residue 63 as Arg, AAA for residue 205
F.1-27/Domain: signal sequence #status predicted <SIG>
F.28-603/Product: insulin-like growth factor binding protein, acid labile chain #status
F.267-290/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR>

Query Match 9.0%; Score 281.5; DB 2; Length 603;
Best Local Similarity 32.4%; Pred. No. 5.6e-09;
Matches 92; Conservative 49; Mismatches 106; Indels 37; Gaps 11;

QY 6 PLLLPALL-LALGP-GVQG-----CPSGCQCQSQPQ-----TVFCTARQGT 45
Db : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 8 PALVLLAFWALGPGCHLQTPGASADAEGPQCPVACTCSHDDYTDLSVFCSSKNLTH 67
Db : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 46 VPRDVPPTVGLYVFENGITMLDASSFAGLPGQLLDLSQNIASLR-----LPRLLL 99
Db : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 68 LPDDIPVSTRALWLDGNLSSIPSAFQNLSSLDLFLNLQGSWLRSLEPQALLGLQNLYYL 127
Db : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 100 DLSHNSLLALEPGIL--DTANVEALRLAGLQLOQDEGLFSRLNLHLDLVDSDNOLERV- 157
Db : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 128 HLERNRLNLAAGLFTHTPSLASLSLSNLLGRLEBGLFQGLSHLWDLNLGNSLVVLPD 187
Db : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 158 PVIRGLRGLTRLRAGNTRIAQLRPEDLAGAALQELDVSNLSLQALPGDLSGLFPRLR 217
Db : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 188 TVFQGLGNLHELVLGN-KLTYLQPALFCGLGELRELDLSRNALRSVKANVFVHLPRLOK 246
Db : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 218 LAAARNPNCVCLSWFG-----PWRESHVTLAS-PEETRCHPP 256
Db : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 247 LYLDRLNLTAVAFGLMGLKALRWLDLSHNRVAGLMEDT---FP 287
Db : : : : : : : : : : : : : : : : : : : : : : : : : :
```

## RESULT 5

```
JC6128
insulin-like growth factor binding complex acid labile chain - mouse
C:Species: Mus musculus (house mouse)
C:Date: 23-Mar-1997 #sequence_revision 09-May-1997 #text_change 09-Jul-2004
C:Accession: JC6128
R:Boisclair, Y.R.; Seto, D.; Hsieh, S.; Hurst, K.R.; Ooi, G.T.
Proc. Natl. Acad. Sci. U.S.A. 93, 10028-10033, 1996
A:Title: Organization and chromosomal localization of the gene encoding the mouse acid la
A:Reference number: JC6128; MUID:96413591; PMID:8816745
A:Accession: JC6128
A:Molecule type: DNA
A:Residues: 1-603 <BOI>
A:Cross-references: UNIPROT:P70389; GB:U66900; NID:G1621612; PIDN:AAB17270.1; PID:G162161
C:Comment: This protein is a serum protein and it is of the ternary complex in the physic
C:Genetics:
A:Gene: als
A:Map position: 17

Query Match 8.9%; Score 278.5; DB 2; Length 603;
Best Local Similarity 32.8%; Pred. No. 8.3e-09;
Matches 90; Conservative 48; Mismatches 101; Indels 35; Gaps 10;

QY 6 PLLLPALL-LALGP-GVQG-----CPSGCQCQSQPQ-----TVFCTARQGT 45
Db : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 8 PALVLLAFWALGPGCHLQTPGASADAEGPQCPVCTCSYDDYTDLSVFCSSRNLTQ 67
Db : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 46 VPRDVPPTVGLYVFENGITMLDASSFAGLPGQLLDLSQNIASLRPRLL----- 98
Db : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 68 LPDGPVSTRALWLDGNLSSIPSAFQNLSSLDLFLNLQGSWLRSLEPQALLGLQNLHY 126
Db : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 99 LDLSHNSLLALEPGIL--DTANVEALRLAGLQLOQDEGLFSRLNLHLDLVDSDNOLERV 157
Db : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 127 HLERNRLNLAAGLFTHTPSLASLSLGNLGRLEBGLFQGLSHLWDLNLGNSLVVLP 186
Db : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 158 -PVIRGLRGLTRLRAGNTRIAQLRPEDLAGAALQELDVSNLSLQALPGDLSGLFPRLR 216
Db : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 187 DTVFQGLGNLHELVLGN-KLTYLQPALFCGLGELRELDLSRNALRSVKANVFVHLPRLO 245
Db : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 217 LAAARNPNCVCLSWFG-----PWRESHVTLA 246
Db : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 246 KLYLDRLNLTAVAFGLMGLKALRWLDLSHNRVA 279
Db : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 6
T42218
slit-1 protein homolog - rat
N:Alternate names: MEGR4 protein
C:Species: Rattus norvegicus (Norway rat)
C:Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 09-Jul-2004
C:Accession: T42218
R:Nakayama, M.; Nakajima, D.; Nagase, T.; Nomura, N.; Seki, N.; Ohara, O.
Genomics 51, 27-34, 1998
A:Title: Identification of high-molecular-weight proteins with multiple EGF-like motifs i
A:Reference number: Z14126; MUID:98360089; PMID:9693030
A:Accession: T42218
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-1531 <NAK>
A:Cross-references: UNIPROT:O88279; EMBL:AB011530; NID:G3449289; PIDN:BAA32460.1; PID:G34
A:Experimental source: strain Sprague-Dawley; brain
C:Genetics:
A:Gene: MEGR4
C:Superfamily: fruit fly slit protein; EGF homology; leucine-rich alpha-2-glycoprotein re

Query Match 8.9%; Score 278; DB 2; Length 1531;
Best Local Similarity 25.8%; Pred. No. 2.5e-08;
Matches 127; Conservative 56; Mismatches 207; Indels 102; Gaps 16;

QY 6 PLLLPALL-LALGP-GVQGCPSGCQCQSQPQTVFCTARQGTVPDRDVPDPTVGLYVFENGIT 65
Db : : : : : : : : : : : : : : : : : : : : : : : : : :
```





A:Reference number: A36665; MUID:91099665; PMID:2176636  
A:Accession: B36665  
A:Status: preliminary  
A:Molecule type: mRNA  
A:Residues: 1-1469 <ROT>  
A:Cross-references: GB:X53959  
C:Genetics:  
A:Gene: FlyBase:sl1

A:Cross-references: FlyBase:FBgn003425  
C:Superfamily: fruit fly slit protein; EGF homology; leucine-rich alpha-2-glycoprotein <PAH1>  
F:101-124/Domain: proteoglycan amino-terminal homology <PAH1>  
F:125-148/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR1>  
F:149-172/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR2>  
F:173-196/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR3>  
F:197-220/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR4>  
F:228-272/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR5>  
F:288-313/Domain: proteoglycan carboxyl-terminal homology <PCS1>  
F:323-346/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR6>  
F:347-370/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR7>  
F:371-394/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR8>  
F:395-418/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR9>  
F:419-442/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR10>  
F:450-494/Domain: proteoglycan carboxyl-terminal homology <PCS2>  
F:512-537/Domain: proteoglycan amino-terminal homology <PAH3>  
F:547-571/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR11>  
F:572-595/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR12>  
F:596-619/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR13>  
F:620-643/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR14>  
F:651-695/Domain: proteoglycan carboxyl-terminal homology <PCS3>  
F:708-733/Domain: proteoglycan amino-terminal homology <PAH4>  
F:743-766/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR15>  
F:767-790/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR16>  
F:846-890/Domain: proteoglycan carboxyl-terminal homology <PCS4>  
F:1028-1061/Domain: EGF homology <EGF>  
F:1068-1099/Domain: EGF homology <EGF2>  
F:1115-1148/Domain: EGF homology <EGF1>

Query Match 8.1%; Score 255.5; DB 2; Length 1469;  
Best Local Similarity 21.4%; Pred. No. 4.8e-07;  
Matches 105; Conservative 52; Mismatches 168; Indels 165; Gaps 14;  
QY 24 CPSCGCSQPQVCTARQGTTPVRDPV-----PDTVGLY 58  
DB 519 CPAMCHC-EGTVDCTGRRLKEIPRDIPLHTTELLNDNELGRISSDGLFGRPLHLVKLE 577  
QY 59 VFENGITMLDASSFAGLPGQLLDLSONOIAS-----LRLPRLLLDLSHNSLLALEPG 112  
DB 578 LKRNQUTGIEPNAFEGASHIQELQGENKIKEISNKNFGLHQLKTLNLDYDQISCVMPG 637  
QY 113 ILDTAN-----VEALRLAGLGLQLOBGLFSRLRNHLHDLV--- 148  
DB 638 SEHLNLSLTSLNLASPNFNCNCHLAWFAECVRKSLSLNGGACGAPSKVRDVIKDLPHS 697  
QY 149 -----SDNQLERPVP-----PV----- 159  
DB 698 EFKCSSENSEGLGDCGCPSCCTCTGTWVACSRNQLKEIPRGIPARTSELYLESNEIEQI 757  
QY 160 ----INGLRLTRLAGNTRIAQLRPEDLAGLAALQELDVS-----NL 199  
DB 758 HYERIHRLSLRDLUS-NNQITLSNYTFANLTJLSTLIISYNNKQCLQRHALSGLNLI 816  
QY 200 SIQALPGDLSGLFPR-----LRLAARNPFNCVPLSPGWPVRVRESHTVLASPEET 251  
DB 817 RVVSLHGNRISMLPEGSFEDLKSLLTHIALGSLNPLYCGLKWFSDMIKLDYV---EPGTA 873  
QY 252 RCHFFPKNAGRLLELDYDFGCPATTTATTTVTRTPVRVREPTALSSSLAPTWSLPTAPA 311  
DB 874 RCAPEPQMDKLLISLTPSSSFVCRGRVRNDILAKCNACFEQPCQNAQCVC-----ALQ 927  
QY 312 TRAPSPPTAPPTVGVPOQ-----QDCPSTCLNGTCHLGRHHLACLCPG 360  
DB 928 REYQC-----LCQPGVHGKHECFMIDACYGNPCRNATCTVLEGRFSQCAFG 976

QY 361 FTGLYCESQM 370  
DB 977 YTGARCETNI 986

RESULT 10

A36665  
slit protein 1 precursor - fruit fly (Drosophila melanogaster)  
C:Species: Drosophila melanogaster  
C:Date: 30-Apr-1991 #sequence revision 30-Apr-1991 #text\_change 02-Aug-2002  
A:Accession: A36665; A31640; S13523  
R:Rothberg, J.M.; Jacobs, J.R.; Goodman, C.S.; Artavanis-Tsakonas, S.  
Genes Dev. 4, 2169-2187, 1990  
A:Title: slit: an extracellular protein necessary for development of midline glia and con  
A:Reference number: A36665; MUID:91099665; PMID:2176636  
A:Accession: A36665  
A:Status: preliminary  
A:Molecule type: mRNA  
A:Residues: 1-1480 <ROT>  
A:Cross-references: GB:X53959; NID:98614; PIDN:CAA37910.1; PID:98615  
R:Rothberg, J.M.; Hartley, D.A.; Walther, Z.; Artavanis-Tsakonas, S.  
Cell 55, 1047-1059, 1988  
A:Title: slit: An EGF-homologous locus of D. melanogaster involved in the development of  
A:Reference number: A31640; MUID:89077533; PMID:3144436  
A:Accession: A31640  
A:Molecule type: DNA  
A:Residues: 881-1182, 'G', 1185-1404, 'GT', 1463-1464, 'YHA' <RO2>  
A:Cross-references: GB:M23543; NID:9340939; PID:9514357  
C:Genetics:  
A:Gene: FlyBase:sl1  
A:Cross-references: FlyBase:FBgn0003425  
A:Introns: 1351/3  
C:Superfamily: fruit fly slit protein; EGF homology; leucine-rich alpha-2-glycoprotein r  
C:Keywords: alternative splicing; growth factor  
F:66-91/Domain: proteoglycan amino-terminal homology <PAH1>  
F:101-124/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR1>  
F:125-148/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR2>  
F:149-172/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR3>  
F:173-196/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR4>  
F:197-220/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR5>  
F:228-272/Domain: proteoglycan carboxyl-terminal homology <PCS1>  
F:288-313/Domain: proteoglycan amino-terminal homology <PAH2>  
F:323-346/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR6>  
F:347-370/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR7>  
F:371-394/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR8>  
F:395-418/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR9>  
F:419-442/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR10>  
F:450-494/Domain: proteoglycan carboxyl-terminal homology <PCS2>  
F:512-537/Domain: proteoglycan amino-terminal homology <PAH3>  
F:547-571/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR11>  
F:572-595/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR12>  
F:596-619/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR13>  
F:620-643/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR14>  
F:651-695/Domain: proteoglycan carboxyl-terminal homology <PCS3>  
F:708-733/Domain: proteoglycan amino-terminal homology <PAH4>  
F:743-766/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR15>  
F:767-790/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR16>  
F:791-814/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR17>  
F:815-838/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR18>  
F:846-890/Domain: proteoglycan carboxyl-terminal homology <PCS4>  
F:1028-1061/Domain: EGF homology <EGF>  
F:1068-1099/Domain: EGF homology <EGF2>  
F:1115-1148/Domain: EGF homology <EGF1>

Query Match 8.1%; Score 255.5; DB 2; Length 1480;  
Best Local Similarity 21.4%; Pred. No. 4.8e-07;  
Matches 105; Conservative 52; Mismatches 168; Indels 165; Gaps 14;  
QY 24 CPSCGCSQPQVCTARQGTTPVRDPV-----PDTVGLY 58  
DB 519 CPAMCHC-EGTVDCTGRRLKEIPRDIPLHTTELLNDNELGRISSDGLFGRPLHLVKLE 577

```
QY 59 VFENGITWLDASSFAGLPGQLQLLDLSONQIAS-----LRPLRLLLDLSHNSLLALEPG 112
Db 578 LKRNLQGTIEPNAFEGASHIQELQGENKIKIEISNMFLGHUQKLTNLNDYNQISCVWMPG 637
QY 113 ILDTAN-----VEALRLAGLGLQQLDEGLFSRLRLHDLV--- 148
Db 638 SFEHLNSLTSNLASPNPNCNCHLAWFAECVRRKKSNGGAARCGAPSKVRDVIKDLPHS 697
QY 149 -----SDNQLRVP---PV----- 159
Db 698 EFKCSSENSEGLGDGYCPSCTGTGTVACSRNQLKEIPRGIPAEITSELYESNEIEQI 757
QY 160 ----IRGLRGITRLRLAGNTRIAQLRPEDLAGLAALQELDVS-----NL 199
Db 758 HYERIRHRSUTRLDLS--NNQITILSNVTFANLTKLSTLIISYKNKLOCLQRHALSGLNNL 816
QY 200 SLOALPGDLSGLFPR-----LRLAAARNPFCVPLSWFGPVRVRESHVTLASPEET 251
Db 817 RVVSLHGNNRISMLPGSFEDLKSLLTHIALGNSPLYCDGLKWFSDWIKLDV---EFGIA 873
QY 252 RCHPPPKNAGRLLELDYADFGCPATTTATVPTTRPVVRPTALSSSLAPTWLSPTAPA 311
Db 874 RCAEPEQMKDLILSTPSSSFVCRGRVRNDILAKNCACFEQPCQNAQCV-----ALPQ 927
QY 312 TEAPSPPTAPTTCVPVPOP-----QDCPPSTCLNGTCHLGRHHLACLCPG 360
Db 928 REYQC-----LCQPGYHGKHCFEMIDACYGNPCRNATCTVLEBGRFSCQCAPG 976
QY 361 FTGLYCESQM 370
Db 977 YTGARCEINI 986

RESULT 11
JC7973
Synleucin - human
C:Species: Homo sapiens (man)
C:Date: 25-Aug-2003 #sequence_revision 25-Aug-2003 #text_change 15-Sep-2003
C:Accession: JC7973
R:Wang, W.; Yang, Y.; Li, L.; Shi, Y.
Biochem. Biophys. Res. Commun. 305, 981-988, 2003
A:Title: Synleucin, a novel leucine-rich repeat protein that increases the intensity of
A:Reference number: JC7973; PMID:12767927
A:Accession: JC7973
A:Molecule type: mRNA
A:Residues: 1-622 <WAN>
A:Cross-references: GB:AY280614
C:Comment: This protein that is a single span transmembrane leucine-rich repeat protein
e intensity of pleiotropic cytokine responses as an adhesion protein or a receptor.
C:Genetics:
A:Gene: slrn
A:Map position: 5q12.1
C:Keywords: cytokine; leucine-rich repeat; synleucin; transmembrane protein

Query Match 8.0%; Score 251; DB 2; Length 622;
Best Local Similarity 23.1%; Pred. No. 3.3e-07;
Matches 107; Conservative 52; Mismatches 142; Indels 162; Gaps 13;

QY 2 CSRVPLPLPLLLALGPGVQCGPCGQCQSQPQTVCFTARQGTTPRDPVPTDVTGLYVFE 61
Db 10 CLRFLVTVCTVLLLLHKEIIGCSSVCQCTGRQINCENGLGISIPKKNFPPESTVFLVITG 69
QY 62 NGITWLDASSFAGLPGQLQLLDLSONQI-----ASLRPLRLLLDLSHNSLLALEPG--- 112
Db 70 NNISVINESELTLGHLVALYLDNSNILVYVPKAFVQLRHLYFLFLNNFIKRLDPGIFK 129
QY 113 -----ILDTAN 118
Db 130 GLNLRLNLYQNVQSFVRGVFNLDVSVQVYINLTQRNRLTVLGSQTFVGMVALRILDSN 189
QY 119 VEALRLAGLGLQQLD-----EGLFSRLRLNLDLSDVSNQLERVPP-VIR 161
Db 190 NNILRISBSGFHLENLACLVLGNSNLTKVPSNAFEVLKSLRRLSLSHNPTEAIOFPFAK 249
```

```
QY 162 GLRGLTRLRAGNTRIAQLRPEDLAGLAALQELDVSNLQALPGD----- 207
Db 250 GLANLEYL-LKNSRIRNVTRDGFSGINNKLHLLSHNDLENLNSDTFSLKNIYIKLD 308
QY 208 -----LSGLFPR-----LRLAAARNPFCVCPCLS 232
Db 309 RNRITISDNTDFENMGASLKILNLSFNNTALHPRVLPKPLSLLIHQANSNPWECNCKLL 368
QY 233 WFGPWVRESHVTLASPEETRCHFPKAGRLLELDYADFGCPATTTATVPTTRPVVRE 292
Db 369 GLRDWLASSAITL---NIYQNPSPMRGALRYINITN---CVTSSINVSRAWAVVKS 420
QY 293 P-----TAL-----SSSLAPT-----W-LSPTAPA 311
Db 421 PHIHKTATLMAWVKVTTNGSPLENTETENITFWERIPTSPA 463

RESULT 12
NBHUA2
Leucine-rich alpha-2-glycoprotein - human
C:Species: Homo sapiens (man)
C:Date: 27-Nov-1985 #sequence_revision 27-Nov-1985 #text_change 05-Dec-1998
C:Accession: A03211
R:Takahashi, N.; Takahashi, Y.; Putnam, F.W.
Proc. Natl. Acad. Sci. U.S.A. 82, 1906-1910, 1985
A:Title: Periodicity of leucine and tandem repetition of a 24-amino acid segment in the
A:Reference number: A03211; MUID:85166241; PMID:3856868
A:Accession: A03211
A:Molecule type: protein
A:Residues: 1-312 <TAK>
C:Comment: The function of this plasma protein is not known.
C:Superfamily: leucine-rich alpha-2-glycoprotein; leucine-rich alpha-2-glycoprotein repeat
C:Keywords: duplication; glycoprotein; plasma; tandem repeat
F:58-81/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR1>
F:82-105/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR2>
F:106-129/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR3>
F:130-153/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR4>
F:154-177/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR5>
F:178-201/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR6>
F:202-225/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR7>
F:226-249/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR8>
F:262-309/Domain: proteoglycan carboxyl-terminal homology <PCH>
F:2/Binding site: carbohydrate (Thr) (covalent) #status experimental
F:8-21,268-294/Disulfide bonds: #status experimental
F:44,151,234,290/Binding site: carbohydrate (Asn) (covalent) #status experimental
F:271/Binding site: carbohydrate (Asn) (covalent) #status absent

Query Match 7.8%; Score 243.5; DB 1; Length 312;
Best Local Similarity 27.5%; Pred. No. 4.1e-07;
Matches 89; Conservative 36; Mismatches 94; Indels 105; Gaps 9;

QY 25 PSGCQ-----CSQPTVCTARQGTTPRDPVPTDVTGLYVFPENGITWLDASSFA 73
Db 5 PKDCQVFRSDHSGSISQCP-----AEIPGLPADIVHLAVEFNNLTPLPANLLQ 54
QY 74 GLPGQLQLLDLSONQIASLR-----LPRLLDLSHNSLLALEPGI-----LOTANVEA 121
Db 55 GASKLQELHLLSSNGLESPEFLRPVQLRVLDLTRNALTGLPPGLFOASATLDTVLKE 114
QY 122 -----LRLAGLGLQQLDEGLFSRLRLNLDLSDVSNQLERVPP-VIR 161
Db 115 NQLEVLVSWHLGKALGHLDLSGNLRKLPPLGGLIANFTLRTLDLGNQLETUPPDLRL 174
QY 162 GLRGLTRLRAGN-----TRIAQLRPEDLAGLAALQELDVSN 198
Db 175 GPLQLERLHLEGNKQLVGLKDLLLPQPDRLVRLFLNGNKLARVAAGAFQGLQDMLDLSN 234
QY 199 LSLQALPG-----DLSGFLPRILRLAAARNPFCVPLSWFGPVRVRES 241
Db 235 NSLASVPEGLWASLQPNWDMRDGFDISG-----NPWICDQNLSDLRYRWLOAQ 282
QY 242 HVTLASPEETRCHFPKAGRLLELDYADFGCPATTTATVPTTRPVVRE 265
```

Db 127 LFLDHNALRGIDQNMFKLVNLQBELALNQNLQDFLPASLFTNLENLKLLDLSGNNLTHLP 186  
 Qy 111 PGILDT-ANVEALRLAGLGQQLDEGL-----FSRLRNLDH 145  
 Db 187 KGLLGAQAKLERLLHNSRLVSLDGLLSLALTELQFHRNHIRSIAPGAFDRLPNLSS 246  
 Qy 146 LDVSV-----DNQLERVPPVIRG----- 162  
 Db 247 LTLSRNHLAFPSALFLHSHNLLTLTLFENPFAELPGVLFGEMGGLQBLNRLNLTQLRTP 306  
 Qy 163 ---LRGLTRLRLAGNT---RIAQLRPEDLAGLAALQELDV----- 196  
 Db 307 AAFARNLSRLRYLGVTLSPRLSALPQGAQFGLGELQVLAHNSNGLTALPDGLLRGLGKLR 366  
 Qy 197 -----SNLS-----LQALPGDLGSLFPRLRLAARNPFNCV 228  
 Db 367 QVSLRRNRLRALPRALPRNLSSLESVLDHMQLETLPGDVFCAIPRLTEVLLGHNSWRCD 426  
 Qy 229 CPISWFGFWRESHVTLASPEE-TRCHFPKPKVAGRLLELDYADPGCAITTTATVPTR 287  
 Db 427 CGLGPFGLWLRQ-HLGLVGGEEPPRCAGPGAHGLPLWALPGDAECPG-----PRGP 478  
 Qy 288 PVVREPTALSSSLAPTWLSPATAPATEAPSPSTAPPTVGP 327  
 Db 479 P--PRPADSSS-----EAPVHPALAPNSSEP 503

RESULT 14  
 JC7763  
 neuronal leucine-rich repeat protein-3 - rat  
 C/Species: Rattus norvegicus (Norway rat)  
 C/Date: 01-Feb-2002 #sequence\_revision 01-Feb-2002 #text\_change 09-Jul-2004  
 C/Accession: JC7763  
 R/Fukunachi, K.; Matsuoaka, Y.; Kitanaka, C.; Kuchino, Y.; Tsuda, H.  
 Biochem. Biophys. Res. Commun. 287, 257-263, 2001  
 A/Title: Rat neuronal leucine-rich repeat protein-3: Cloning and regulation of  
 A/Reference number: JC7763; PMID:11549284  
 A/Contents: Fibrosarcoma cells  
 A/Accession: JC7763  
 A/Molecule type: mRNA  
 A/Residues: 1-707 <FUK>  
 A/Cross-references: UNIPROT:Q9BSY6; GB:A291437  
 C/Comment: This protein, a new member of the neuronal leucine-rich repeat protein  
 in protein-protein interaction and functions as a cell adhesion molecule or so.  
 C/Genetics:  
 A/Gene: nlrr-3  
 C/Keywords: cell adhesion

Query Match 7.6%; Score 237; DB 2; Length 707;  
 Best Local Similarity 20.7%; Pred. No. 2.4e-06;  
 Matches 127; Conservative 80; Mismatches 222; Indels 186; Gaps 22

Qy 6 PLLPLPLLILLALGPCVQG-----CPSGCQCS-----QPQTVFCTARQGTVP 47  
 Db 5 PLQTHVLLGLAITALVOAGDKVQDCPOLCTCEIRPWFPTPSIYMEASTVDCNDLGLNFP 64  
 Qy 48 RDVPDPVTGLVYFENGITLMDASSFAGLP-GLQLLDLSONOIASL----- 91  
 Db 65 ARLPADTQIILLQTNNTARIEHST--DFPVNLGTGLDSQNNLSVTNINVKMSQLLSVY 122  
 Qy 92 -----RLPRLILLDLIS-----HNSLLALEPGIL----- 114  
 Db 123 LEENKLTPEKCYGLSNIQLQELVYVNHLLSAISPGAFVGLHNLRLHLNSNRLQWINSK 182  
 Qy 115 ---DTANVEAIRL-----AGLGLQQLDEGLFSRLRNHLDH 147  
 Db 183 WFEALPNLEITLMDGNPILRIKDMNFQPLKRLSLVIAGINLTVPDDALVGLNLEIS 242  
 Qy 148 VSDNQLSRVP-----PVIRGLRG----- 165  
 Db 243 FYDNRNLKVPQVALQKAVNLKFLDLNKNPINIRRGDFSNMHLKELGINNPVELVSDS 302  
 Qy 166 -----LTRLRLAGNTRIAQLRPEDLAGLAALQELDVSNLSLQAL-PGDLSGLFFRLR 216

Db	303	LAVNLPDLRKIEATNNPRLSYIHPNAFFRPKLESMLNSNALSALYHGHTIESL-PNLK	361	Db	482	CADGFEENCE	492
Qy	217	LAAARNPNCVCLSPWPGWVRSHVTLASPEETRCHFFPKNAGRLLELDYADGCPA	276				
Db	362	EISIHSPNPIRCDVIRWIN--MNKTNIRFMEPDSLCVDPPEFQGVNVRQVHFRDM---	415				
Qy	277	TTTTATVTTTPVVRPEPTALSSSL---APTWLSPTAPATEAPSPSTAPPTVGVPOQD	333				
Db	416	-----MEICLPLI-APESFPFSLDVEADSVLSLHCRATAEPQ-----PEIYWT	463				
Qy	334	CPPSTCLNGGTCGL-GTRHHLACLCEGFTCLY---CESOMGQGTSPSPPTVTPRPPR--	387				
Db	464	LLPNTLREKFFVHSEGLDIRGITPKGQ--GLYTCIATNLVGADLKSIMIKVGGFVQDN	521				
Qy	388	--SLTLGIEPVSPYSLRGLQRYLQSSVQVLSRLTYRNLSPGDKRLVTLRLPASA	445				
Db	522	NGSLNIKIRDIRANSVLVS---WKANSKILKSSVKWTAFAVKTEDSQAAQSARIP	578				
Qy	446	TVTLRPNATYSVCV	460				
Db	579	NLTHLKPSTEYKICI	593				
RESULT 15							
T42626							
secreted leucine-rich repeat-containing protein SLIT2 - mouse (fragment)							
N;Alternate names: neurogenic extracellular slit protein							
C;Species: Mus musculus (house mouse)							
C;Date: 11-Jan-2000 #sequence_revision 11-Jan-2000 #text_change 09-Jul-2004							
C;Accession: T42626							
R;Holmes, G.P.; Negus, K.; Burridge, L.; Raman, S.; Algar, E.; Yamada, T.; Little, M.H.							
Mech. Dev. 79, 57-72, 1998							
A;Title: Distinct but overlapping expression patterns of two vertebrate slit homologs in							
A;Reference number: Z22177; MUID:99279238; PMID:10349621							
A;Accession: T42626							
A;Status: preliminary; translated from GB/EMBL/DBJ							
A;Molecule type: mRNA							
A;Residues: 1-1025 <HOL>							
A;Cross-references: UNIPROT:Q9R1B9; EMBL:AF074960; NID:g4151258; PID:g4151259; PIDN:AA00							
C;Genetics:							
A;Gene: Slit2							
C;Superfamily: fruit fly slit protein; EGF homology; leucine-rich alpha-2-glycoprotein x							
Query Match 7.4%; Score 231; DB 2; Length 1025;							
Best Local Similarity 24.0%; Pred. No. 8.1e-06;							
Matches 89; Conservative 32; Mismatches 122; Indels 128; Gaps 13;							
Qy	24	CPSGCQCSQPQTVECTARQGTTPRDPVPPDTVGLYVPENGITMLDASSFAGLPGQLLDL	83				
Db	223	CPSECTCLD-TXVRCNKGKLVLPKGI PKDVTELYLDGNQFTLV-PKELSNYKHLTLIDL	280				
Qy	84	SONQIASL-----RLPRLLLDLSHNSLLALEPGILDANVEALRAGLQQLDEGLF	137				
Db	281	SNNRISTLSNQXFSNMTQLLTLLSYNRLRCIPRTFD-----GLKSL-----	323				
Qy	138	SRLNLHLDVSDNQLERVPVIRGLRGLRLRLAGNTRIAQLRPEDLAGLAALQELDVS	197				
Db	324	-RLLSLHGNDIS-----VVP-----	337				
Qy	198	NLSLQALPGDLSGLFPRLRLAARNPENCVCPLSWFGVPWVRSHVTLASPEETRCHPPP	257				
Db	338	----EGAFNDLSA-----LSHLAIGANPLYCDNCNMQWLSMDWVKSEY---KEFGIAR	386				
Qy	258	KNAGRLLELDYADGFCPATTTATVTPTRPVVREPTALSSSLAPTWLSPTAPATEAPSP	317				
Db	387	EMADKLLLTTSKFTCQ-----	421				
Qy	318	PSTAPPTVGPVP-----QPQDCP-----PSTCLNGGTCHL--GTRHHLACL	356				
Db	422	PKNDGT CNNDPVDYRCTCPYFGKQDCDVIHACISNPKCKGKGTCHLKEGENAGFWCT	481				
Qy	357	CPEGFTGLYCE	367				

Search completed: May 12, 2005, 19:12:49  
Job time : 128 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: May 12, 2005, 18:59:25 ; Search time 179 Seconds  
(without alignments)  
1710.745 Million cell updates/sec

Title: US-09-943-780-69

Perfect score: 3135

Sequence: 1 MCSRVPLLLPLLLLLALQPG.....PLMGPPGPGCLQSLHAKPYI 598

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters: 1612378

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1500 summaries

Database : Uniprot\_03:\*

1: uniprot\_sprot:\*

2: uniprot\_trembl:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	3135	100.0	598	2	Q6UKL5
2	3083.5	98.4	673	2	Q6UKL4
3	3078.5	98.2	673	2	Q6EMK4
4	2697.5	86.0	601	2	Q96CX1
5	2491	79.5	673	2	Q8BJJ0
6	2490	79.4	673	2	Q8R2G5
7	2484	79.2	673	2	Q9CZT5
8	1213.5	38.7	661	2	Q6DF55
9	359.5	11.5	635	2	Q6PJG9
10	351	11.2	636	2	Q8OXU8
11	348	11.1	636	2	Q8K3C4
12	341	10.9	660	2	Q8BLU0
13	339	10.8	521	2	Q8BHA1
14	332	10.6	637	2	Q6A073
15	330	10.5	653	1	LRR4 HUMAN
16	329.5	10.5	648	2	Q6DDY0
17	328.5	10.5	627	2	Q6UY10
18	325.5	10.4	570	2	Q70AK2
19	324	10.3	626	2	Q8BLY3
20	322.5	10.3	682	2	Q6DJD2
21	322.5	10.3	811	2	Q7L0X0
22	322.5	10.3	887	2	Q75139
23	322	10.3	605	1	ALS_PAPHA
24	321	10.2	628	2	Q9BTN0
25	321	10.2	797	2	Q9UGS3
26	320	10.2	660	1	FLR2 HUMAN
27	320	10.2	674	2	Q6RKD8
28	318.5	10.2	652	1	LRR4 MOUSE
29	317	10.1	778	2	Q6NUI6
30	312.5	10.0	648	2	Q70AK3
31	311.5	9.9	420	2	Q7M6Z0

32	310.5	9.9	420	2	Q80WD1
33	310.5	9.9	646	1	FLR1 HUMAN
34	308	9.8	627	2	Q8NC95
35	308	9.8	649	1	FLR3 HUMAN
36	307.5	9.8	674	2	Q8WVA2
37	307	9.8	637	2	Q68P21
38	306.5	9.8	730	2	Q6EHP6
39	305.5	9.7	730	2	Q6US92
40	302.5	9.6	420	2	Q6X813
41	302.5	9.6	420	2	Q86UN3
42	302	9.6	605	1	ALS_HUMAN
43	302	9.6	605	2	Q8TAY0
44	299.5	9.6	677	2	Q28256
45	298.5	9.5	649	2	Q8BGT1
46	298.5	9.5	663	2	Q6ZPQ1
47	295.5	9.4	640	2	Q8BGH8
48	295.5	9.4	640	2	Q8C031
49	293.5	9.4	809	2	Q9DBY4
50	292.5	9.3	636	2	Q7L0N3
51	292.5	9.3	640	2	Q9HCJ2
52	292.5	9.3	837	2	Q80TV0
53	289.5	9.2	713	2	Q8N182
54	288.5	9.2	372	2	Q7T2W3
55	287.5	9.2	713	2	Q6UXM0
56	284.5	9.1	457	2	Q6WZD1
57	283.5	9.0	603	2	Q70211
58	283.5	9.0	713	1	LRN5 HUMAN
59	283	9.0	1515	2	Q6DE37
60	282.5	9.0	745	2	Q6UXK2
61	282.5	9.0	785	2	Q9P263
62	282	9.0	626	1	GPBA_HUMAN
63	281.5	9.0	603	1	ALS_RAT
64	281	9.0	738	2	Q90Z45
65	278.5	8.9	603	1	ALS_MOUSE
66	278.5	8.9	687	2	Q9JIL0
67	278	8.9	321	2	Q8E4K4
68	278	8.9	1531	1	SLT1_RAT
69	276	8.8	1531	1	SLT1_MOUSE
70	276	8.8	2623	2	Q6WRI0
71	273.5	8.7	593	2	Q6UY18
72	273.5	8.7	1504	1	SLIT_DROME
73	273	8.7	785	2	Q6ZPQ3
74	271.5	8.7	342	2	Q9IXL1
75	271	8.6	473	1	RT4R_HUMAN
76	271	8.6	473	1	RT4R_MACEA
77	270.5	8.6	541	2	Q6PK41
78	270	8.6	478	2	Q6WZD2
79	270	8.6	1534	1	SLT1_HUMAN
80	268	8.5	417	2	Q8E4J7
81	267.5	8.5	1512	2	Q9DE36
82	266.5	8.5	1529	2	Q7ZXI2
83	266	8.5	460	2	Q6IPL6
84	266	8.5	734	2	Q35930
85	264.5	8.4	420	2	Q13641
86	261.5	8.3	347	1	A2GL_HUMAN
87	261	8.3	1523	1	SLT3_RAT
88	258	8.2	321	2	Q6E4D1
89	258	8.2	1523	1	SLT3_HUMAN
90	257	8.2	739	2	Q8BKM5
91	255.5	8.1	1095	2	Q90XG4
92	254.5	8.1	1286	2	Q7QCT2
93	254	8.1	1523	1	SLT3_MOUSE
94	253.5	8.1	589	2	Q6GQU6
95	253.5	8.1	1410	2	Q20204
96	253	8.1	426	2	Q8BQA4
97	253	8.1	567	1	GPV_MOUSE
98	252	8.0	311	2	Q6E4L1
99	252	8.0	426	2	Q9QYD9
100	252	8.0	567	2	Q9QZU3
101	251.5	8.0	788	2	Q9CYK3
102	251	8.0	426	2	Q9Z0L0
103	251	8.0	473	1	RT4R_MOUSE
104	251	8.0	542	2	Q9N4G6

Q80wd1	rattus norv
Q9nzu1	homo sapien
Q8nc95	homo sapien
Q9nzu0	homo sapien
Q8wva2	homo sapien
Q68f21	xenopus lae
Q6p8p6	mus musculus
Q6us92	mus musculus
Q6x813	homo sapien
Q86un3	homo sapien
P35858	homo sapien
Q8tay0	homo sapien
Q28256	canis famli
Q8bgt1	mus musculus
Q6zpq1	mus musculus
Q8bgh8	m mus muscu
Q8c031	mus musculus
Q9dby4	m mus muscu
Q7l0n3	homo sapien
Q9hcj2	homo sapien
Q80tv0	mus musculus
Q8n182	homo sapien
Q7t2w3	brachydanio
Q6uxm0	homo sapien
Q6wzd1	brachydanio
Q70211	rattus norv
Q75325	homo sapien
Q9de37	brachydanio
Q6uxk2	homo sapien
Q9p263	homo sapien
P07359	homo sapien
P35859	rattus norv
Q90z45	gallus gall
P70389	mus musculus
Q9jil0	mus musculus
Q6e4k4	petromyzon
Q8e279	rattus norv
Q80tr4	mus musculus
Q6wri0	homo sapien
Q6uy18	homo sapien
P24014	drosophila
Q6zpq3	mus musculus
Q9ixl1	mus musculus
Q9bzr6	homo sapien
Q9n0e3	macaca fasc
Q6pk41	homo sapien
Q6wzd2	brachydanio
Q75093	homo sapien
Q6e4j7	petromyzon
Q9de36	brachydanio
Q7zx12	xenopus lae
Q6ipl6	homo sapien
Q35930	mus musculus
Q13641	homo sapien
P02750	homo sapien
Q8280	rattus norv
Q6e4d1	petromyzon
Q75094	homo sapien
Q8bkm5	mus musculus
Q90xg4	gallus gall
Q7qct2	anopheles g
Q9w7b4	mus musculus
Q6gqu6	mus musculus
Q20204	caenorhabdi
Q8bqa4	mus musculus
Q08742	mus musculus
Q6e4l1	petromyzon
Q9qydv9	rattus norv
Q9gzu3	mus musculus
Q9cyk3	mus musculus
Q92010	mus musculus
Q99pi8	mus musculus
Q9n4g6	caenorhabdi

105	251	8.0	622	2	Q6ZWI5	Q6zw15 homo sapien	178	220.5	7.0	528	2	Q80U08	Q80u08 mus musculus
106	251	8.0	622	2	Q7Z2Q7	Q7z2q7 homo sapien	179	220.5	7.0	733	2	Q24250	Q24250 drosophila
107	251	8.0	1021	2	Q9V430	Q9v430 drosophila	180	220.5	7.0	822	1	SLK6_HUMAN	Q9h5y7 homo sapien
108	249.5	8.0	789	2	Q9BE71	Q9be71 macaca fasc	181	220.5	7.0	841	2	Q6AW93	Q6aw93 homo sapien
109	249.5	8.0	832	2	Q9ULH4	Q9ulh4 homo sapien	182	220	7.0	514	2	Q8BZ81	Q8bz81 m mus muscu
110	249.5	8.0	2597	2	Q6WRH9	Q6wrh9 rattus norv	183	220	7.0	582	2	Q8BGJ7	Q8bgj7 m mus muscu
111	248	7.9	481	1	NYX_HUMAN	Q9gzus homo sapien	184	220	7.0	582	2	Q8BZA0	Q8bza0 mus musculus
112	247.5	7.9	1521	1	SUT2_MOUSE	Q9rib9 mus musculus	185	219	7.0	334	2	Q6P7C4	Q6p7c4 rattus norv
113	247.5	7.9	1529	1	SUT2_MOUSE	Q948l3 homo sapien	186	218.5	7.0	618	1	LR21_MOUSE	Q8k099 mus musculus
114	247.5	7.9	1530	2	Q90WZ3	Q90wz3 xenopus lae	187	217.5	6.9	288	2	Q8BR15	Q8br15 mus musculus
115	245.5	7.8	331	2	Q91W20	Q91w20 mus musculus	188	217	6.9	637	2	Q6DCV7	Q6dcv7 xenopus lae
116	245	7.8	321	2	Q6E4J9	Q6e4j9 petromyzon	189	216	6.9	263	2	Q6E4C7	Q6e4c7 petromyzon
117	245	7.8	426	2	Q6PE38	Q6pe38 mus musculus	190	215.5	6.9	331	1	FLIB_AGRBL	Q93233 agkistrodon
118	245	7.8	708	2	Q8IYQ6	Q8iyq6 homo sapien	191	215.5	6.9	737	2	Q9VU51	Q9vu51 drosophila
119	244.5	7.8	718	2	Q73675	Q73675 xenopus lae	192	215	6.9	743	2	Q6PIN7	Q6pin7 homo sapien
120	244.5	7.8	766	1	SUT2_RAT	Q9wvc1 rattus norv	193	214.5	6.8	441	2	Q86UN2	Q86un2 homo sapien
121	244.5	7.8	833	2	Q80TG9	Q80tg9 mus musculus	194	214.5	6.8	716	2	Q8IYV5	Q8iyv5 homo sapien
122	244	7.8	458	2	Q6WZD3	Q6wzd3 brachydanio	195	214.5	6.8	716	2	Q6UXK5	Q6uxk5 homo sapien
123	244	7.8	567	1	GPV_RAT	Q88770 rattus norv	196	214.5	6.8	730	2	Q9P231	Q9p231 homo sapien
124	244	7.8	708	2	Q9H3W5	Q9h3w5 homo sapien	197	214.5	6.8	1535	2	Q23991	Q23991 drosophila
125	243.5	7.8	476	1	NYX_MOUSE	P83503 mus musculus	198	214	6.8	295	2	Q6E4C9	Q6e4c9 petromyzon
126	243	7.8	321	2	Q6E4L4	Q6e4l4 petromyzon	199	214	6.8	516	1	LRN2_HUMAN	Q43300 homo sapien
127	243	7.8	708	2	Q6I9V8	Q6i9v8 homo sapien	200	214	6.8	2828	2	Q9NR39	Q9nr99 homo sapien
128	242.5	7.7	388	2	Q6ZMS4	Q6zms4 brachydanio	201	213.5	6.8	238	1	Q6E4J5	Q6e4j5 petromyzon
129	242.5	7.7	545	1	CP88_HUMAN	P22792 homo sapien	202	213.5	6.8	359	1	CHAD_HUMAN	Q53335 homo sapien
130	242.5	7.7	718	2	Q6PCF4	Q6pcfk4 xenopus lae	203	213.5	6.8	361	1	CHAD_BOVIN	Q27972 bos taurus
131	242	7.7	808	2	Q7FVZ3	Q7fpvz3 anopheles g	204	213	6.8	438	2	Q7TQ96	Q7tq96 rattus norv
132	242	7.7	1216	2	Q7PZJ7	Q7pzj7 anopheles g	205	213	6.8	716	2	Q6I809	Q6i809 mus musculus
133	241.5	7.7	311	2	Q6E4L3	Q6e4l3 petromyzon	206	213	6.8	721	2	Q69Z10	Q69zi0 mus musculus
134	240	7.7	473	1	RT4R_RAT	Q9m75 rattus norv	207	212	6.8	445	2	Q80WD0	Q80wd0 rattus norv
135	240	7.7	560	1	GPV_HUMAN	P40197 homo sapien	208	212	6.8	939	2	Q7Q3F0	Q7q3f0 anopheles g
136	239.5	7.6	370	2	Q8BGX3	Q8bgx3 m mus muscu	209	211.5	6.7	192	2	Q6E4I9	Q6e4i9 petromyzon
137	238	7.6	453	2	Q86XY1	Q86xy1 homo sapien	210	211.5	6.7	270	2	Q6E4L7	Q6e4l7 petromyzon
138	238	7.6	544	2	Q8UV23	Q8uv23 spherooides	211	211	6.7	187	2	Q6E4I2	Q6e4i2 petromyzon
139	237.5	7.6	391	2	Q8D3K0	Q8d3k0 m mus muscu	212	211	6.7	513	2	Q86VH5	Q86vh5 homo sapien
140	237	7.6	370	2	Q8N967	Q8n967 homo sapien	213	211	6.7	581	2	Q9BGP6	Q9bgp6 macaca fasc
141	237	7.6	578	1	LR15_RAT	Q8r5m3 rattus norv	214	210.5	6.7	321	2	Q6E4L5	Q6e4l5 petromyzon
142	237	7.6	707	2	Q9ESY6	Q9esy6 rattus norv	215	210.5	6.7	4303	1	PKD1_HUMAN	P98161 homo sapien
143	236	7.5	707	2	Q8CBC6	Q8cbc6 mus musculus	216	210	6.7	358	1	CHAD_RAT	Q70210 rattus norv
144	236	7.5	718	2	Q6P6Z7	Q6p6z7 xenopus lae	217	210	6.7	581	2	Q6N0A3	Q6n0a3 homo sapien
145	235.5	7.5	579	1	LR15_MOUSE	Q80x72 mus musculus	218	210	6.7	1028	2	Q865R7	Q865r7 sus scrofa
146	234	7.5	707	2	P978F0	P978f0 mus musculus	219	209.5	6.7	214	2	Q6E4H0	Q6e4h0 petromyzon
147	233.5	7.4	298	2	Q6E4J4	Q6e4j4 petromyzon	220	209	6.7	211	2	Q6E4I3	Q6e4i3 petromyzon
148	233	7.4	1316	2	Q9VQZ5	Q9vvq25 drosophila	221	209	6.7	257	2	Q6E4J6	Q6e4j6 petromyzon
149	231.5	7.4	840	1	SLK6_MOUSE	Q8cl10 mus musculus	222	209	6.7	353	2	Q6UXK1	Q6uxk1 homo sapien
150	231	7.4	547	1	CP88_MOUSE	Q9d9b9 mus musculus	223	209	6.7	358	1	CHAD_MOUSE	Q55226 mus musculus
151	231	7.4	707	2	Q642E4	Q642e4 rattus norv	224	209	6.7	1091	1	LIG1_MOUSE	P70193 mus musculus
152	231	7.4	901	2	Q7QBN2	Q7qbn2 anopheles g	225	208.5	6.7	382	1	PRLP_HUMAN	P51888 homo sapien
153	230	7.3	332	2	Q8QFN6	Q8qfn6 elaphe quad	226	208.5	6.7	382	2	Q6FHG6	Q6fhg6 homo sapien
154	230	7.3	332	2	Q8QFN7	Q8qfn7 elaphe quad	227	208.5	6.7	445	2	Q8K0S5	Q8k0s5 m reticulon
155	229.5	7.3	828	2	Q8C8T7	Q8c8t7 mus musculus	228	208.5	6.7	479	2	Q6X3Y5	Q6x3y5 brachydanio
156	229	7.3	581	1	LR15_HUMAN	Q8tf66 homo sapien	229	208.5	6.7	518	2	Q86VH4	Q86vh4 homo sapien
157	228.5	7.3	294	2	Q6E4L6	Q6e4l6 petromyzon	230	208.5	6.7	537	1	LG14_HUMAN	Q8n135 homo sapien
158	228.5	7.3	341	2	Q6ZSA7	Q6zsa7 homo sapien	231	208.5	6.7	590	2	Q6UXJ7	Q6uxj7 homo sapien
159	227.5	7.3	356	2	Q8BXQ3	Q8bxq3 mus musculus	232	208	6.6	649	2	Q9VK22	Q9vk22 drosophila
160	227	7.2	783	2	Q90XG2	Q90xg2 gallus gall	233	207.5	6.6	180	2	Q6E4F0	Q6e4f0 petromyzon
161	227	7.2	950	2	Q90Z44	Q90z44 gallus gall	234	207.5	6.6	518	2	Q6ZT31	Q6zt31 homo sapien
162	226.5	7.2	557	1	LG11_HUMAN	Q95970 homo sapien	235	207.5	6.6	1329	1	G124_MOUSE	Q91zv8 mus musculus
163	226.5	7.2	719	1	LRP5_HUMAN	Q66ni6 homo sapien	236	207	6.6	313	2	Q8N7C0	Q8n7c0 homo sapien
164	225.5	7.2	298	2	Q6E4J3	Q6e4j3 petromyzon	237	207	6.6	536	2	Q6P0D2	Q6p0d2 brachydanio
165	223	7.1	289	2	Q8E4C8	Q8e4c8 petromyzon	238	207	6.6	4293	2	Q08852	Q08852 mus musculus
166	222.5	7.1	413	2	Q842I5	Q842i5 mus musculus	239	206.5	6.6	270	2	Q6E4K6	Q6e4k6 petromyzon
167	222.5	7.1	557	1	LG11_RAT	Q8k4y5 rattus norv	240	206.5	6.6	274	2	Q6E4B9	Q6e4b9 petromyzon
168	222.5	7.1	792	1	Q90Z43	Q90z43 gallus gall	241	206.5	6.6	274	2	Q6E4C1	Q6e4c1 petromyzon
169	222	7.1	269	2	Q6E4L0	Q6e4l0 petromyzon	242	206.5	6.6	294	2	Q6E4L2	Q6e4l2 petromyzon
170	222	7.1	348	2	Q95J78	Q95j78 macaca fasc	243	206.5	6.6	423	2	Q8ND46	Q8nd46 homo sapien
171	221.5	7.1	557	1	LG11_MOUSE	Q9jial mus musculus	244	206.5	6.6	606	2	Q7TT38	Q7tt38 mus musculus
172	221.5	7.1	719	1	LRP5_MOUSE	Q8bxa0 mus musculus	245	206.5	6.6	614	2	Q9DI10	Q9dit0 mus musculus
173	221	7.0	1093	1	LG11_HUMAN	Q96jal homo sapien	246	206	6.6	353	2	Q8WU48	Q8wu48 homo sapien
174	220.5	7.0	210	2	Q6E4M1	Q6e4m1 petromyzon	247	206	6.6	353	2	Q9UJX9	Q9ujx9 homo sapien
175	220.5	7.0	322	2	Q6E4K1	Q6e4k1 petromyzon	248	206	6.6	381	1	PRLP_BOVIN	Q9gkn8 bos taurus
176	220.5	7.0	515	2	Q8BG43	Q8bga3 m mus muscu	249	206	6.6	428	2	O14498	O14498 homo sapien
177	220.5	7.0	515	2	Q8C8L1	Q8c8l1 mus musculus	250	206	6.6	581	2	Q95K18	Q95k18 macaca fasc

251	206	6.6	606	2	Q8BLC0	Q8b1c0 m mus muscu	324	193.5	6.2	378	2	Q8CAZ9	Q8caz9 mus musculu
252	206	6.6	606	2	Q8BZD4	Q8bzd4 m mus muscu	325	193.5	6.2	421	2	Q9NT99	Q9nt99 homo sapien
253	205.5	6.6	212	2	Q6BDH2	Q6bdh2 petromyzon	326	193.5	6.2	433	2	Q6IDG7	Q6idg7 drosophila
254	205.5	6.6	479	2	Q6DRH76	Q6drh76 brachydanio	327	193.5	6.2	545	1	YK12_HUMAN	Q8n0v4 homo sapien
255	205.5	6.6	492	2	Q99KT6	Q99kt6 mus musculu	328	193.5	6.2	721	1	YK92_MYCTU	Q10690 mycobacteri
256	205.5	6.6	518	2	Q80XG9	Q80xg9 mus musculu	329	193.5	6.2	721	1	YK92_MYCTU	Q10690 mycobacteri
257	205.5	6.6	591	2	Q8JZS8	Q8jzs8 mus musculu	330	193.5	6.2	893	2	Q96C25	Q96c25 homo sapien
258	205	6.5	614	2	Q9N008	Q9n008 macaca fasc	331	193.5	6.2	910	2	Q9HB75	Q9hb75 homo sapien
259	205	6.5	620	2	Q96FE5	Q96fe5 homo sapien	332	193.5	6.2	977	1	SLK3_HUMAN	Q9n493 homo sapien
260	205	6.5	740	1	CT75_HUMAN	Q8wt44 homo sapien	333	193.5	6.2	977	1	SLK3_HUMAN	Q9n493 homo sapien
261	204.5	6.5	463	2	Q8C1V9	Q8cmv6 rattus norv	334	193	6.2	540	2	Q9VJN8	Q9vln8 drosophila
262	204	6.5	353	2	Q6QWY6	Q6qwy6 rattus norv	335	192.5	6.1	187	2	Q6B4D5	Q6bd5 petromyzon
263	204	6.5	1173	2	Q9V7J8	Q9v7j8 drosophila	336	192.5	6.1	214	2	Q6B4G0	Q6b4g0 petromyzon
264	204	6.5	1306	2	Q6P4S1	Q6p4s1 xenopus lae	337	192.5	6.1	270	2	Q6B4K0	Q6b4k0 petromyzon
265	203.5	6.5	845	2	Q6A1I3	Q6a1i3 homo sapien	338	192.5	6.1	428	2	Q6CU68	Q6cu68 mus musculu
266	203.5	6.5	894	2	Q9VKG1	Q9vkg1 drosophila	339	192.5	6.1	575	2	Q23580	Q23580 caenorhabdi
267	203.5	6.5	1065	1	LIG2_HUMAN	Q94988 homo sapien	340	192.5	6.1	1093	2	Q6HA06	Q6ha06 crassoostrea
268	203	6.5	269	2	Q6B4B6	Q6eb4b6 petromyzon	341	192	6.1	265	2	Q6B4K2	Q6eb4k2 petromyzon
269	203	6.5	317	2	Q7PR48	Q7pr48 anopheles g	342	192	6.1	273	2	Q6B4C5	Q6eb4c5 petromyzon
270	203	6.5	1514	2	Q6NN49	Q6nn49 drosophila	343	192	6.1	548	1	LG13_MOUSE	Q8k406 mus musculu
271	203	6.5	1514	2	Q9NBK9	Q9nbk9 drosophila	344	192	6.1	627	2	Q6UN14	Q6un14 leishmania
272	203	6.5	1514	2	Q9VUN0	Q9vun0 drosophila	345	191.5	6.1	187	2	Q6B4I7	Q6b4i7 petromyzon
273	202.5	6.5	274	2	Q6B4J2	Q6b4j2 petromyzon	346	191.5	6.1	204	2	Q6B4J8	Q6b4j8 petromyzon
274	202.5	6.5	1476	2	Q7QJ29	Q7qj29 anopheles g	347	191.5	6.1	915	1	Q9ERV7	Q9erv7 mus musculu
275	202	6.4	1178	2	Q942T3	Q942t3 oryza sativ	348	191.5	6.1	980	1	SLK3_MOUSE	Q8l0b9 mus musculu
276	201.5	6.4	187	2	Q6E4D7	Q6e4d7 petromyzon	349	191.5	6.1	980	2	Q6NZM5	Q6nzm5 mus musculu
277	201.5	6.4	372	2	Q6CBR6	Q6cbr6 mus musculu	350	190.5	6.1	1238	2	Q6NR19	Q6nr19 drosophila
278	201.5	6.4	457	2	Q9B0D1	Q9b0d1 drosophila	351	190.5	6.1	1535	2	Q9VPF0	Q9vpf0 drosophila
279	201.5	6.4	606	2	Q9B220	Q9b220 homo sapien	352	190	6.1	191	2	Q6B4H3	Q6b4h3 petromyzon
280	201.5	6.4	892	2	P91644	P91644 drosophila	353	190	6.1	733	1	CT75_MOUSE	P59383 mus musculu
281	201.5	6.4	1527	2	Q9VZ24	Q9vz24 drosophila	354	190	6.1	1059	2	Q6UXL7	Q6uxl7 homo sapien
282	201	6.4	213	2	Q6B4H6	Q6b4h6 petromyzon	355	190	6.1	1119	2	Q6UXM1	Q6uxm1 homo sapien
283	201	6.4	218	2	Q6B4K9	Q6b4k9 petromyzon	356	190	6.1	1346	2	Q9V477	Q9v477 drosophila
284	201	6.4	581	2	Q9BTR7	Q9btr7 homo sapien	357	190	6.1	2800	2	Q6XHB1	Q6xhb1 dictyosteli
285	201	6.4	602	2	Q9H9A6	Q9h9a6 homo sapien	358	189.5	6.0	1316	2	Q7O168	Q7q168 anopheles g
286	200.5	6.4	845	1	SLK2_HUMAN	Q9hi56 homo sapien	359	189	6.0	369	1	PGS1_MOUSE	P28653 mus musculu
287	200	6.4	653	2	Q02329	Q02329 caenorhabdi	360	189	6.0	369	1	PGS1_RAT	P47853 rattus norv
288	199.5	6.4	622	2	Q66HV9	Q66hv9 brachydanio	361	189	6.0	839	2	Q9SN46	Q9sn46 arabiidopsis
289	199	6.3	846	1	SLK2_MOUSE	Q8l0c0 mus musculu	362	189	6.0	1392	2	Q9VAD1	Q9vad1 drosophila
290	199	6.3	1328	2	Q21043	Q21043 caenorhabdi	363	189	6.0	4311	2	Q7YQK5	Q7yqk5 canis famil
291	198.5	6.3	320	2	Q6YN44	Q6yn44 homo sapien	364	188.5	6.0	369	2	Q6GM15	Q6gm15 brachydanio
292	198.5	6.3	601	2	Q9HCZ4	Q9hcz4 homo sapien	365	188.5	6.0	410	2	Q9DDZ7	Q9ddz7 petromyzon
293	198.5	6.3	617	1	LR21_RAT	Q9jnm2 rattus norv	366	188.5	6.0	440	1	OMGP_MOUSE	Q63912 mus musculu
294	198.5	6.3	873	2	LR21_RAT	Q7xr24 oryza sativ	367	188	6.0	369	1	PGS1_CANFA	Q02678 canis famil
295	198.5	6.3	1331	1	G124_HUMAN	Q96pe1 homo sapien	368	188	6.0	522	2	Q8K377	Q8k377 m littm1 pr
296	198	6.3	363	2	Q7SYE5	Q7sy55 brachydanio	369	188	6.0	601	2	Q9VZ84	Q9vz84 drosophila
297	197.5	6.3	280	2	Q6B4K3	Q6b4k3 petromyzon	370	187.5	6.0	310	2	Q9DDZ8	Q9ddz8 petromyzon
298	197.5	6.3	300	2	Q6B4K8	Q6b4k8 petromyzon	371	187.5	6.0	363	2	Q9H5G9	Q9h5g9 homo sapien
299	197.5	6.3	537	2	Q9VE49	Q9ve49 drosophila	372	187.5	6.0	425	2	Q9VGH2	Q9vgh2 drosophila
300	197.5	6.3	548	1	LG13_HUMAN	Q8ni45 homo sapien	373	187.5	6.0	601	2	Q7SXW3	Q7sxw3 brachydanio
301	197.5	6.3	1321	1	G125_HUMAN	Q8lwk6 homo sapien	374	187	6.0	615	2	Q9VZ84	Q9vz84 drosophila
302	197	6.3	345	2	Q9HBL6	Q9hbl6 homo sapien	375	187	6.0	735	2	Q6E114	Q6e114 mus musculu
303	197	6.3	694	2	Q6YXK5	Q6yxk5 oryza sativ	376	186.5	5.9	368	1	PGS1_XENLA	Q9l875 xenopus lae
304	196	6.3	263	2	Q6B4D0	Q6bd0 petromyzon	377	186.5	5.9	521	2	Q7ZU34	Q7zu34 leprospira
305	196	6.3	3638	1	PLP1_MOUSE	Q15142 homo sapien	378	186.5	5.9	734	2	Q7O696	Q7o696 anopheles g
306	195.5	6.2	378	1	PLP1_MOUSE	Q9jk53 mus musculu	379	186.5	5.9	839	1	TLR4_HUMAN	Q00206 homo sapien
307	195.5	6.2	917	2	Q86PM1	Q86pm1 mus musculu	380	186.5	5.9	839	1	TLR4_PANPA	Q9tnc0 pan paniscu
308	195.5	6.2	931	2	Q9VW16	Q9vw16 drosophila	381	186	5.9	273	2	Q6B4B4	Q6eb4b4 petromyzon
309	195	6.2	614	2	Q6NUK3	Q6nuk3 homo sapien	382	186	5.9	440	1	OMGP_HUMAN	P23515 homo sapien
310	195	6.2	620	2	Q6UXM3	Q6uxm3 homo sapien	383	186	5.9	552	2	Q9VT44	Q9vt44 drosophila
311	195	6.2	826	2	Q7Q1P7	Q7q1p7 anopheles g	384	186	5.9	579	2	Q9LGG8	Q9lgg8 oryza sativ
312	195	6.2	837	1	SLK4_HUMAN	Q8lws2 homo sapien	385	186	5.9	623	1	LR21_HUMAN	Q9p2v4 homo sapien
313	194.5	6.2	369	2	Q6S291	Q6s291 gallus gall	386	185.5	5.9	466	2	Q6GIW3	Q6giw3 xenopus lae
314	194.5	6.2	693	2	Q723D0	Q723d0 homo sapien	387	185.5	5.9	953	2	Q6MFB7	Q6mf87 parachlamyd
315	194.5	6.2	699	1	ECW2_HUMAN	Q94769 homo sapien	388	185	5.9	389	2	Q6BFP5	Q6bfp5 brachydanio
316	194.5	6.2	737	2	Q965M3	Q965m3 caenorhabdi	389	185	5.9	512	2	Q6PEZ8	Q6pez8 homo sapien
317	194.5	6.2	881	2	Q965M2	Q965m2 caenorhabdi	390	184.5	5.9	565	2	Q8C030	Q8c030 mus musculu
318	194.5	6.2	1447	2	Q16779	Q16779 caenorhabdi	391	184.5	5.9	799	2	Q9V964	Q9v964 drosophila
319	194.5	6.2	1630	1	LAP4_HUMAN	Q14160 homo sapien	392	184.5	5.9	839	2	Q69ZV6	Q69zv6 mus musculu
320	194	6.2	263	2	Q6B4C0	Q6eb4c0 petromyzon	393	184.5	5.9	843	1	TLR4_HORSE	Q9myw3 equus cabal
321	194	6.2	836	2	Q9V9V6	Q9v9v6 drosophila	394	184.5	5.9	957	1	SLK5_MOUSE	Q8l0b7 mus musculu
322	193.5	6.2	186	2	Q6B4H8	Q6eb4h8 petromyzon	395	184.5	5.9	1007	2	Q6SX53	Q6sx53 oryza sativ
323	193.5	6.2	377	1	PLRP_RAT	Q9eqp5 rattus norv	396	184.5	5.9	1214	2	Q69JN6	Q69jn6 oryza sativ



397	184	5.9	187	2	Q6E4M5	Q6e4m5	petromyzon	470	178	5.7	364	2	Q66J59	Q66j59	xenopus lae
398	184	5.9	253	2	Q6E4K5	Q6e4k5	petromyzon	471	178	5.7	522	2	Q96DN1	Q96dn1	homo sapien
399	184	5.9	263	2	Q6E4K5	Q6e4k5	petromyzon	472	178	5.7	522	2	Q86UE6	Q86ue6	homo sapien
400	184	5.9	368	1	PGS1_HUMAN	P21810	homo sapien	473	178	5.7	894	2	Q96JUD6	Q96jd6	strongyloce
401	184	5.9	489	2	Q7QF76	Q7qf76	anopheles g	474	178	5.7	1049	1	TLR7_HUMAN	TLR7	homo sapien
402	184	5.9	552	2	Q6K6X6	Q6k6x6	oryza sativ	475	178	5.7	1052	2	Q9Y4C4	Q9y4c4	homo sapien
403	184	5.9	837	1	SLK4_MOUSE	Q810b8	mus musculus	476	178	5.7	1257	2	Q7PNF8	Q7pnf8	anopheles g
404	183.5	5.9	187	2	Q6E4F6	Q6e4f6	petromyzon	477	177.5	5.7	1050	1	TLR7_MOUSE	TLR7	mus musculus
405	183.5	5.9	287	2	Q9W2B9	Q9w2b9	drosoophila	478	177.5	5.7	1360	2	Q7KTA0	Q7kta0	drosoophila
406	183.5	5.9	292	2	Q6NYT6	Q6nyt6	brachydanio	479	177.5	5.7	1530	2	Q68D07	Q68d07	homo sapien
407	183.5	5.9	601	2	Q6TLH1	Q6tlh1	brachydanio	480	177.5	5.7	2300	2	Q7RVM0	Q7rvm0	neurospora
408	183.5	5.9	727	2	Q6A0E8	Q6a0e8	mus musculus	481	177.5	5.7	2493	1	CYAA_USTMA	P49606	ustilago ma
409	183.5	5.9	795	1	TLR1_MOUSE	Q8epg1	mus musculus	482	177	5.6	187	2	Q6E4H5	Q6e4h5	petromyzon
410	183.5	5.9	841	1	TLR4_PIG	Q8y56	sus scrofa	483	177	5.6	343	1	LUM_COTJA	Q6e4h5	petromyzon
411	183.5	5.9	1537	1	LAP1_HUMAN	Q9enw7	homo sapien	484	176.5	5.6	187	2	Q6E4M0	Q6e4m0	petromyzon
412	183	5.9	540	2	Q9VU53	Q9vu53	drosoophila	485	176.5	5.6	522	2	Q86SJ2	Q86sj2	homo sapien
413	183	5.8	568	2	Q6P3Y9	Q6p3y9	mus musculus	486	176.5	5.6	721	2	Q7PVZ6	Q7pvz6	anopheles g
414	183	5.8	662	1	GARP_HUMAN	Q14392	homo sapien	487	176.5	5.6	1495	1	LAP1_RAT	P70587	rattus norv
415	183	5.8	664	2	Q7ZT81	Q7zt81	oncorhynch	488	176.5	5.6	1756	2	Q6AWK8	Q6awk8	drosoophila
416	182.5	5.8	187	2	Q6E4G1	Q6e4g1	petromyzon	489	176	5.6	503	2	Q8LJ87	Q8lj87	oryza sativ
417	182.5	5.8	187	2	Q6E4G7	Q6e4g7	petromyzon	490	176	5.6	623	2	Q95S21	Q95s21	drosoophila
418	182.5	5.8	379	1	ASPN_HUMAN	Q9bxx1	homo sapien	491	176	5.6	1257	2	Q9VKZ8	Q9vkz8	drosoophila
419	182.5	5.8	384	2	Q6P528	Q6p528	homo sapien	492	176	5.6	1412	1	LAP2_HUMAN	Q96rt1	homo sapien
420	182.5	5.8	810	2	Q8T3J2	Q8t3j2	drosoophila	493	175.5	5.6	440	2	Q7TNN3	Q7tnm3	rattus norv
421	182.5	5.8	811	2	Q9VK54	Q9vk54	drosoophila	494	175.5	5.6	492	2	Q80ZD8	Q80zd8	mus musculus
422	182.5	5.8	828	1	TLR4_PONPY	Q8ape9	pongo pygma	495	175.5	5.6	638	2	Q69ZQ0	Q69zq0	mus musculus
423	182.5	5.8	837	2	Q8SP68	Q8spe8	gorilla gor	496	175.5	5.6	700	2	Q7Q2W6	Q7q2w6	anopheles g
424	182.5	5.8	880	2	P91643	P91643	drosoophila	497	175.5	5.6	1490	1	LAP1_MOUSE	Q80te7	mus musculus
425	182.5	5.8	958	1	SLK5_HUMAN	Q94991	homo sapien	498	175.5	5.6	3127	2	Q7PTD4	Q7ptd4	anopheles g
426	182	5.8	271	2	Q6E4C4	Q6e4c4	petromyzon	499	175	5.6	343	1	LUM_CHICK	P51890	gallus gall
427	182	5.8	369	1	PGS1_SHEEP	Q66390	ovis aries	500	175	5.6	429	2	Q8BJ09	Q8bj09	mus musculus
428	182	5.8	373	2	Q803T1	Q803t1	brachydanio	501	175	5.6	510	2	Q9BGY6	Q9bgyc	macaca fasc
429	182	5.8	428	2	Q8F3F8	Q8f3f8	leptosira	502	175	5.6	788	2	Q7Q0C5	Q7q0c5	anopheles g
430	182	5.8	532	2	Q96671	Q96671	drosoophila	503	175	5.6	973	2	Q6KCC7	Q6kcc7	oncorhynch
431	182	5.8	722	2	Q7Q550	Q7q550	anopheles g	504	175	5.6	1173	2	Q7QHH1	Q7qhh1	anopheles g
432	182	5.8	1022	2	Q8HXV0	Q8hxv0	bos taurus	505	174.5	5.6	190	2	Q6E4E5	Q6e4e5	petromyzon
433	182	5.8	1029	2	Q866B2	Q866b2	bos taurus	506	174.5	5.6	512	2	Q9CQ76	Q9cq76	mus muscu
434	181.5	5.8	180	2	Q8BPJ0	Q8bpj0	mus musculus	507	174.5	5.6	602	2	Q78WQ9	Q78wq9	mus musculus
435	181.5	5.8	357	1	PGS2_CHICK	P28675	gallus gall	508	174.5	5.6	602	2	Q8BS83	Q8bs83	mus musculus
436	181.5	5.8	599	2	Q7T3H6	Q7t3h6	brachydanio	509	174.5	5.6	602	2	Q9CRC8	Q9crc8	mus musculus
437	181.5	5.8	2160	2	Q13328	Q13328	magnaporthe	510	174.5	5.6	605	2	Q6GPJ5	Q6gpj5	xenopus lae
438	181.5	5.8	2160	2	Q13488	Q13488	magnaporthe	511	174.5	5.6	795	1	TLR6_MOUSE	Q9epw9	mus musculus
439	181	5.8	372	1	PGS1_HORSE	Q64603	equus cabal	512	174.5	5.6	966	2	Q94J33	Q94j33	oryza sativ
440	181	5.8	626	2	Q7QIF3	Q7qip3	anopheles g	513	174.5	5.6	1060	2	Q6ZGM3	Q6zgm3	oryza sativ
441	181	5.8	1013	2	Q8LQ10	Q8lq10	oryza sativ	514	174	5.6	535	2	Q8RX50	Q8rx50	brassica ni
442	180.5	5.8	371	2	Q6GLQ6	Q6glq6	xenopus lae	515	174	5.6	544	2	Q7Q2W5	Q7q2w5	anopheles g
443	180.5	5.8	385	2	Q8BMW6	Q8bmw6	mus musculus	516	174	5.6	859	1	TLR5_MOUSE	Q9jlf7	mus musculus
444	180.5	5.8	441	2	Q8IL70	Q8il70	drosoophila	517	174	5.6	951	1	LGR4_RAT	Q9z2h4	rattus norv
445	180.5	5.8	584	2	Q6PGX3	Q6pgx3	brachydanio	518	173.5	5.5	353	2	Q640B1	Q640b1	xenopus tro
446	180.5	5.8	821	2	Q6GPY3	Q6gpy3	homo sapien	519	173.5	5.5	364	2	Q6GNX8	Q6gnx8	xenopus lae
447	180.5	5.8	1443	2	Q9VJQ0	Q9vjq0	drosoophila	520	173.5	5.5	421	1	QMD_HUMAN	Q99983	homo sapien
448	180	5.7	369	1	PGS1_BOVIN	P21809	bos taurus	521	173.5	5.5	440	2	Q7TQ25	Q7tq25	rattus norv
449	180	5.7	817	2	Q86P15	Q86p15	drosoophila	522	173.5	5.5	537	1	LG14_MOUSE	Q8k1e1	mus musculus
450	180	5.7	817	2	Q9VS84	Q9vs84	drosoophila	523	173.5	5.5	806	2	Q7TPC5	Q7tpc5	mus musculus
451	180	5.7	843	2	Q7ZTG5	Q7ztg5	gallus gall	524	173.5	5.5	826	1	TLR4_PAPAN	Q9tsp2	papio anubi
452	179.5	5.7	187	2	Q6E4D6	Q6e4d6	petromyzon	525	173.5	5.5	2300	1	CYAA_NEUCR	Q01631	neurospora
453	179.5	5.7	1117	2	Q6P1C6	Q6pic6	mus musculus	526	173	5.5	269	2	Q6E4C2	Q6e4c2	petromyzon
454	179.5	5.7	4283	2	Q9ERV0	Q9erv0	rattus norv	527	173	5.5	360	1	PGS2_HORSE	Q46542	equus cabal
455	179	5.7	273	2	Q6E4B8	Q6e4b8	petromyzon	528	173	5.5	470	2	Q9V354	Q9v354	drosoophila
456	179	5.7	534	2	Q9VT89	Q9vt89	drosoophila	529	173	5.5	853	2	Q8CB40	Q8cb40	mus musculus
457	179	5.7	700	2	Q9P244	Q9p244	homo sapien	530	173	5.5	925	1	GLHR_ATEL	P35409	anthopleura
458	179	5.7	742	2	Q9BJD4	Q9bjd4	strongyloce	531	173	5.5	1459	2	Q8WRE4	Q8wre4	anopheles g
459	179	5.7	905	1	TLR3_MOUSE	Q99mb1	mus musculus	532	172.5	5.5	163	2	Q6E4E2	Q6e4e2	petromyzon
460	178.5	5.7	190	2	Q6E4D8	Q6e4d8	petromyzon	533	172.5	5.5	276	2	Q7PSP4	Q7psp4	anopheles g
461	178.5	5.7	356	1	PGS2_COTJA	Q9de68	coturnix co	534	172.5	5.5	353	1	KERA_CHICK	O42335	gallus gall
462	178.5	5.7	443	2	Q6SVV7	Q6svv7	oryza sativ	535	172.5	5.5	353	1	KERA_CHICK	Q9de66	coturnix co
463	178.5	5.7	483	2	Q7PJD0	Q7pjd0	anopheles g	536	172.5	5.5	359	1	PGS2_HUMAN	Q9de66	coturnix co
464	178.5	5.7	493	2	Q8IWI1	Q8iw71	homo sapien	537	172.5	5.5	451	2	Q7QIS8	Q7qis8	homo sapien
465	178.5	5.7	493	2	Q86WK6	Q86wk6	homo sapien	538	172.5	5.5	823	2	Q68FM6	Q68fm6	mus musculus
466	178.5	5.7	1024	1	POPC_RALSO	Q9rbs2	raistonia s	539	172.5	5.5	823	2	Q8CCW8	Q8ccw8	mus musculus
467	178.5	5.7	1104	2	Q7XUH4	Q7xuh4	oryza sativ	540	172.5	5.5	1851	1	LAP4_DROME	Q7kry7	drosoophila
468	178.5	5.7	1310	1	G125_MOUSE	Q7t36	mus musculus	541	172.5	5.5	4256	2	Q8MJF3	Q8mjf3	canis fami
469	178	5.7	187	2	Q6E4H4	Q6e4h4	petromyzon	542	172	5.5	347	2	Q7ZUT1	Q7zut1	brachydanio

543	172	5.5	577	2	Q8N3K5	Q8n3k5 homo sapien	616	166.5	5.3	743	2	Q95RV9	Q95rv9 drosophila
544	172	5.5	1134	2	Q65510	Q65510 arabisidopsis	617	166.5	5.3	743	2	Q8KTF2	Q8ktf2 listeria mo
545	171.5	5.5	378	2	Q9V900	Q9v900 drosophila	618	166.5	5.3	744	2	Q8KHN1	Q8khn1 listeria mo
546	171.5	5.5	683	1	LRCA_HUMAN	LRCA_HUMAN	619	166.5	5.3	744	2	Q8KI88	Q8ki88 listeria mo
547	171.5	5.5	858	1	TLR5_HUMAN	TLR5_HUMAN	620	166.5	5.3	744	2	Q8KTF1	Q8ktf1 listeria mo
548	171.5	5.5	859	1	LRRS_MOUSE	LRRS_MOUSE	621	166.5	5.3	744	2	Q8KTF5	Q8ktf5 listeria mo
549	171.5	5.5	1589	2	Q9UUQ9	Q9uq9 metarhizium	622	166.5	5.3	744	2	Q8KTF8	Q8ktf8 listeria mo
550	171	5.5	360	1	PGS2_PIG	PGS2_PIG	623	166.5	5.3	746	2	Q8KTF3	Q8ktf3 listeria mo
551	171	5.5	360	2	Q6DV11	Q6dv11 gekko japon	624	166.5	5.3	800	1	INLA_LISMF	P251k6 listeria mo
552	171	5.5	833	1	TLR4_FELCA	TLR4_FELCA	625	166.5	5.3	800	1	INLA_LISMO	P251k6 listeria mo
553	170.5	5.4	246	2	Q6B4J1	Q6e4j1 petromyzon	626	166.5	5.3	1000	2	Q7QF88	Q7qf88 anopheles g
554	170.5	5.4	373	1	ASPN_MOUSE	Q99mq4 mus musculu	627	166.5	5.3	1012	2	Q95VI6	Q95vi6 asterina pe
555	170.5	5.4	741	2	Q8KTF7	Q8ktf7 listeria mo	628	166.5	5.3	1115	2	Q652D9	Q652d9 oryza sativ
556	170.5	5.4	1031	2	CHH252	Q8hz52 felis silve	629	166.5	5.3	1280	2	Q95YI7	Q95yi7 asterina pe
557	170.5	5.4	2145	1	CYAA_PODAN	Q01513 podospora a	630	166.5	5.3	1292	2	Q7QHP7	Q7qhp7 anopheles g
558	170	5.4	187	2	Q6B4D9	Q6e4d9 petromyzon	631	166.5	5.3	3204	2	Q6X248	Q6x248 bovine herp
559	170	5.4	364	1	LR19_MOUSE	Q8bzt5 mus musculu	632	166	5.3	163	2	Q6B4F8	Q6e4f8 petromyzon
560	170	5.4	907	1	LGR5_HUMAN	Q75473 homo sapien	633	166	5.3	426	2	Q72TC3	Q72tc3 leptospira
561	170	5.4	1024	2	Q84IE6	Q84ie6 raietonia s	634	166	5.3	806	2	Q6F690	Q6f690 rattus norv
562	170	5.4	1471	2	Q7KW92	Q7kw92 drosophila	635	166	5.3	835	1	TLR4_RAT	Q9qx05 rattus norv
563	169.5	5.4	352	1	KERA_BOVIN	Q62702 bos taurus	636	166	5.3	1030	2	Q865R8	Q865r8 sus scrofa
564	169.5	5.4	366	2	Q8BX06	Q8bx06 m mus muscu	637	166	5.3	1110	2	Q94LN2	Q94ln2 oryza sativ
565	169.5	5.4	493	2	Q8OZD7	Q8ozd7 rattus norv	638	166	5.3	1110	2	Q7G768	Q7g768 oryza sativ
566	169.5	5.4	760	2	Q97OK5	Q97ok5 arabisidopsis	639	166	5.3	1221	2	Q9N5Z3	Q9n5z3 caenorhabdi
567	169.5	5.4	876	2	Q67WES	Q67wes oryza sativ	640	165.5	5.3	360	1	PGS2_BOVIN	P21793 bos taurus
568	169.5	5.4	991	2	Q6R5N8	Q6r5n8 mus musculu	641	165.5	5.3	360	1	PGS2_CANFA	Q29393 canis famil
569	169.5	5.4	1271	2	Q8VI44	Q8vi44 mus musculu	642	165.5	5.3	526	2	Q7XJS3	Q7xjs3 arabisidopsis
570	169.5	5.4	1271	2	Q9JJ28	Q9jj28 mus musculu	643	165.5	5.3	1256	1	FLIH_DROME	Q24020 drosophila
571	169	5.4	217	2	Q6GWJ6	Q6gwj6 felis silve	644	165.5	5.3	1269	1	FLIH_HUMAN	Q13045 homo sapien
572	169	5.4	354	1	PGS2_MOUSE	P28654 mus musculu	645	165	5.3	902	2	Q7RYP2	Q7ryp2 neurospora
573	169	5.4	360	2	Q6J0Y6	Q6j0y6 paralichthy	646	165	5.3	994	2	Q9C637	Q9c637 arabisidopsis
574	169	5.4	474	2	Q7QI16	Q7qi16 anopheles g	647	165	5.3	1135	2	Q7XSI2	Q7xsi2 oryza sativ
575	169	5.4	757	2	Q6XMS7	Q6xms7 oryza sativ	648	165	5.3	1168	2	Q7QHH4	Q7qhh4 anopheles g
576	169	5.4	839	2	Q9RX57	Q9rx57 deinococcus	649	164.5	5.2	455	2	Q7PSV7	Q7psv7 anopheles g
577	168.5	5.4	255	2	Q6GWJ3	Q6gwj3 felis silve	650	164.5	5.2	582	1	SHO2_HUMAN	Q9uc13 homo sapien
578	168.5	5.4	353	2	Q7RYS8	Q7r58 xenopus lae	651	164.5	5.2	805	2	Q658W7	Q658w7 homo sapien
579	168.5	5.4	363	2	Q8CBA7	Q8cba7 mus musculu	652	164.5	5.2	819	2	Q659A9	Q659a9 homo sapien
580	168.5	5.4	523	2	Q7QHK8	Q7qhk8 anopheles g	653	164.5	5.2	858	1	LRRS_HUMAN	Q711w4 homo sapien
581	168.5	5.4	619	2	Q6K8K0	Q6k8k0 oryza sativ	654	164	5.2	257	1	LRK3_MOUSE	P59034 mus musculu
582	168.5	5.4	685	2	Q6T545	Q6t545 listeria mo	655	164	5.2	426	2	Q8P2I3	Q8p2i3 leptospira
583	168.5	5.4	728	2	Q6T546	Q6t546 listeria mo	656	164	5.2	570	2	Q8L3T8	Q8l3t8 oryza sativ
584	168.5	5.4	744	2	Q8KTF6	Q8ktf6 listeria mo	657	164	5.2	611	2	Q7TQ62	Q7tq62 mus musculu
585	168.5	5.4	907	1	LGR5_MOUSE	Q9z1p4 mus musculu	658	164	5.2	696	1	SLK1_HUMAN	Q96px8 homo sapien
586	168.5	5.4	1036	2	Q9FN37	Q9fn37 arabisidopsis	659	164	5.2	696	1	SLK1_MOUSE	Q810c1 mus musculu
587	168.5	5.4	1360	2	Q9NDI1	Q9ndi1 drosophila	660	164	5.2	760	2	Q69Z70	Q69z70 mus musculu
588	168	5.4	351	2	Q65YW8	Q65yw8 xenopus lae	661	164	5.2	828	1	LGR6_HUMAN	Q9hbx8 homo sapien
589	168	5.4	402	2	Q7ZU35	Q7z35 leptospira	662	164	5.2	839	2	Q8MIQ2	Q8miq2 oryctolagus
590	168	5.4	753	2	Q9NRE6	Q9nre6 homo sapien	663	164	5.2	870	2	Q6PCD4	Q6pcd4 homo sapien
591	168	5.4	951	1	LGR4_HUMAN	Q9bxb1 homo sapien	664	164	5.2	888	2	Q7Q8I8	Q7q8i8 anopheles g
592	168	5.4	977	2	Q8GVW0	Q8gvw0 oryza sativ	665	164	5.2	904	1	TLR3_HUMAN	Q15455 homo sapien
593	167.5	5.3	147	2	Q9TT00	Q9tt00 sus scrofa	666	164	5.2	915	2	Q6UY15	Q6uy15 homo sapien
594	167.5	5.3	351	1	KERA_MOUSE	Q35367 mus musculu	667	164	5.2	923	2	Q86VU0	Q86vu0 homo sapien
595	167.5	5.3	360	1	PGS2_SHEEP	Q9tte2 ovis aries	668	164	5.2	928	2	Q9BYD7	Q9byd7 homo sapien
596	167.5	5.3	378	2	Q7ZU36	Q7z36 leptospira	669	164	5.2	1032	2	Q865B9	Q865b9 canis famil
597	167.5	5.3	396	2	Q8C3D9	Q8c3d9 mus musculu	670	164	5.2	1395	2	Q7SC01	Q7sc01 neurospora
598	167.5	5.3	422	1	OMD_BOVIN	Q77742 bos taurus	671	164	5.2	2045	1	AGRN_HUMAN	Q00468 homo sapien
599	167.5	5.3	917	2	Q75GM9	Q75gm9 oryza sativ	672	163.5	5.2	163	2	Q6B4E0	Q6e4e0 petromyzon
600	167.5	5.3	1174	2	Q7XS37	Q7xs37 oryza sativ	673	163.5	5.2	166	2	Q6B4I0	Q6e4i0 petromyzon
601	167	5.3	167	2	Q6P2A4	Q6p2a4 rattus norv	674	163.5	5.2	180	2	Q6E4H7	Q6e4h7 petromyzon
602	167	5.3	582	2	Q6AYI5	Q6ay15 rattus norv	675	163.5	5.2	370	2	Q9DE04	Q9de04 oreochromis
603	167	5.3	633	2	Q8F3F6	Q8f3f6 leptospira	676	163.5	5.2	786	2	Q48809	Q48809 arabisidopsis
604	167	5.3	743	2	Q84CF7	Q84cf7 listeria mo	677	163	5.2	359	2	Q9DE03	Q9de03 oreochromis
605	167	5.3	744	2	Q8KTF4	Q8ktf4 listeria mo	678	163	5.2	501	2	Q6ZHS5	Q6zhs5 oryza sativ
606	167	5.3	794	2	Q6YW99	Q6yw99 oryza sativ	679	163	5.2	524	2	Q83378	Q83378 mus musculu
607	167	5.3	838	1	TLR4_CRIGR	Q9w82 cricetus	680	163	5.2	582	1	SHO2_MOUSE	Q88520 mus musculu
608	167	5.3	978	2	Q80YX3	Q80yx3 mus musculu	681	163	5.2	929	2	Q6F9N3	Q6f9n3 mus musculu
609	167	5.3	1112	2	Q41397	Q41397 lycopersico	682	163	5.2	933	2	Q9BJD5	Q9bjd5 strongyloce
610	167	5.3	112	2	Q41398	Q41398 lycopersico	683	163	5.2	961	2	Q76CT7	Q76ct7 paralichthy
611	166.5	5.3	163	2	Q6E4D4	Q6e4d4 petromyzon	684	163	5.2	961	2	Q76CT9	Q76ct9 paralichthy
612	166.5	5.3	349	2	Q9SVW8	Q9svw8 arabisidopsis	685	163	5.2	1221	2	Q9BIW9	Q9biw9 caenorhabdi
613	166.5	5.3	739	2	Q84CF6	Q84cf6 listeria mo	686	163	5.2	1612	1	LAP4_MOUSE	Q80u72 mus musculu
614	166.5	5.3	741	2	Q8KTF0	Q8ktf0 listeria mo	687	162.5	5.2	283	2	Q9V428	Q9v428 drosophila
615	166.5	5.3	741	2	Q8KTF9	Q8ktf9 listeria mo	688	162.5	5.2	452	2	Q8F118	Q8f118 leptospira

689	162.5	5.2	494	2	Q9VEK6	Q9vek6 drosophila	762	158	5.0	879	2	Q68CI3	Q68ci3 oncorhynchus
690	162.5	5.2	527	2	Q96PBS	Q96pbs drosophila	763	158	5.0	909	2	Q6ZRC2	Q6zrc2 homo sapien
691	162.5	5.2	641	2	Q8MQM0	Q8mqm0 drosophila	764	158	5.0	5703	1	M05B_HUMAN	Q9nc84 homo sapien
692	162	5.2	242	2	Q9UG10	Q9ugl10 homo sapien	765	157.5	5.0	163	2	Q6E4I4	Q6e4i4 petromyzon
693	162	5.2	613	2	Q7Z5L7	Q7z5l7 homo sapien	766	157.5	5.0	224	2	Q9DE01	Q9de01 brachydanio
694	162	5.2	642	2	Q6UXL8	Q6uxl8 homo sapien	767	157.5	5.0	272	2	Q7KWF0	Q7kwf0 drosophila
695	162	5.2	649	2	Q8C2M4	Q8c2m4 mus musculus	768	157.5	5.0	1032	2	Q6UVZ2	Q6uvz2 homo sapien
696	162	5.2	661	2	Q6PIR3	Q6pir3 homo sapien	769	157	5.0	273	2	Q9NUU4	Q9nuu4 homo sapien
697	162	5.2	1040	2	Q6Z8Y3	Q6z8y3 oryza sativ	770	157	5.0	377	2	Q8F1L9	Q8f1l9 leptospira
698	161.5	5.2	507	2	Q9N3F2	Q9n3f2 caenorhabdi	771	157	5.0	444	2	Q9H5H8	Q9h5h8 homo sapien
699	161.5	5.2	841	1	TLR4_BOVIN	Q9gl65 bos taurus	772	157	5.0	592	2	Q7L236	Q7l236 homo sapien
700	161.5	5.2	841	2	Q8SQ55	Q8sq55 bos taurus	773	157	5.0	613	2	Q940B8	Q940e8 zea mays (m
701	161.5	5.2	841	2	Q6WC04	Q6wcd4 bos taurus	774	157	5.0	622	2	Q8N3B0	Q8n3b0 homo sapien
702	161.5	5.2	841	2	Q6WCDS	Q6wcds bos taurus	775	157	5.0	680	1	LRC4_MOUSE	Q921g6 mus musculus
703	161	5.1	552	2	Q7QFF0	Q7qff0 anopheles g	776	157	5.0	796	2	Q6NSU5	Q6nsj5 homo sapien
704	161	5.1	558	2	Q8MPPE	Q8mpp6 caenorhabdi	777	157	5.0	903	2	Q6IWL5	Q6iwl5 brachydanio
705	161	5.1	559	2	Q22875	Q22875 caenorhabdi	778	157	5.0	1032	2	Q6Y1S0	Q6y1s0 rattus norv
706	161	5.1	586	2	Q93377	Q93377 caenorhabdi	779	156.5	5.0	360	1	PGS2_RABIT	Q28888 oryctolagus
707	161	5.1	682	1	CONN_DROME	Q01819 drosophila	780	156.5	5.0	376	1	FMOD_HUMAN	Q06828 homo sapien
708	161	5.1	691	2	Q9AWM0	Q9awm0 drosophila	781	156.5	5.0	424	2	Q7Q087	Q7q087 anopheles g
709	161	5.1	861	2	Q9SLS3	Q9sls3 nicotiana t	782	156.5	5.0	428	2	Q9VDD4	Q9vdd4 drosophila
710	161	5.1	905	2	Q7TN18	Q7tni18 rattus norv	783	156.5	5.0	524	2	Q6AXP5	Q6axp5 rattus norv
711	161	5.1	945	2	Q801F9	Q801f9 carassius a	784	156.5	5.0	711	2	Q9SPM1	Q9spm1 lycopersico
712	160.5	5.1	452	2	Q7QKY2	Q7qky2 anopheles g	785	156.5	5.0	887	1	UFO_HUMAN	P30530 homo sapien
713	160.5	5.1	519	2	Q8QZD9	Q8qzd9 mus musculus	786	156.5	5.0	980	2	Q9ZUI0	Q9zuio arabidopsis
714	160.5	5.1	1446	2	Q9V8Z0	Q9v8z0 drosophila	787	156.5	5.0	1190	2	Q7PMD3	Q7pmd3 anopheles g
715	160.5	5.1	2910	2	Q55225	Q55225 mus musculus	788	156.5	5.0	1301	2	Q9VZB1	Q9vzb1 drosophila
716	160.5	5.1	3889	2	Q6SSS8	Q6sse8 chlamydomon	789	156.5	5.0	1600	2	Q9SM84	Q9sm84 oryza sativ
717	160	5.1	744	2	Q65375	Q65375 arabidopsis	790	156.5	5.0	1766	2	Q6XHA8	Q6xha8 dictyosteli
718	160	5.1	1050	2	Q9BN18	Q9bn18 drosophila	791	156	5.0	163	2	Q6E4D2	Q6e4d2 petromyzon
719	160	5.1	1080	2	Q9P4P6	Q9p4p6 oryza sativ	792	156	5.0	163	2	Q6E4F5	Q6e4f5 petromyzon
720	160	5.1	1096	2	Q8W556	Q8w556 arabidopsis	793	156	5.0	257	1	LRR3_HUMAN	Q9by71 homo sapien
721	160	5.1	1402	1	LAP2_MOUSE	Q80th2 mus musculus	794	156	5.0	354	1	PGS2_RAT	Q01129 rattus norv
722	160	5.1	1496	2	Q26262	Q92626 homo sapien	795	156	5.0	469	2	Q9WI28	Q9wi28 drosophila
723	159.5	5.1	187	2	Q6E415	Q6e415 petromyzon	796	156	5.0	552	2	Q8K375	Q8k375 mus musculus
724	159.5	5.1	494	2	Q9LHF1	Q9lhf1 arabidopsis	797	156	5.0	594	2	Q9U3A0	Q9u3a0 caenorhabdi
725	159.5	5.1	520	2	Q7TNJ4	Q7tnj4 rattus norv	798	156	5.0	643	2	Q6Q148	Q6qi48 rattus norv
726	159.5	5.1	520	2	Q8QZD6	Q8qzd6 rattus norv	799	156	5.0	890	2	Q7Q941	Q7q941 anopheles g
727	159.5	5.1	636	2	Q8SQH3	Q8sqh3 canis famil	800	156	5.0	940	2	Q8T753	Q8t753 brachioosto
728	159.5	5.1	952	2	Q6Z7A9	Q6zta9 homo sapien	801	156	5.0	1039	2	Q86BL1	Q86bl1 drosophila
729	159.5	5.1	1112	2	Q64486	Q64486 arabidopsis	802	155.5	5.0	332	2	Q6C2U8	Q6c2u8 yarrowia li
730	159.5	5.1	1176	2	Q6ZW16	Q6zwi6 homo sapien	803	155.5	5.0	338	2	Q6YEX8	Q6yex8 gallus gall
731	159	5.1	257	1	LRR3_RAT	P93035 rattus norv	804	155.5	5.0	367	2	Q8BK43	Q8bk43 mus musculus
732	159	5.1	524	1	LRR1_HUMAN	Q9ctt6 homo sapien	805	155.5	5.0	903	2	Q14560	Q14560 homo sapien
733	159	5.1	543	2	Q8S7M7	Q8s7m7 oryza sativ	806	155.5	5.0	980	2	Q80WA0	Q80wa0 mus musculus
734	159	5.1	550	1	LG12_MOUSE	Q8k4z0 mus musculus	807	155.5	5.0	1102	2	Q8KC98	Q8kc98 chlorobium
735	159	5.1	626	2	Q9NDD1	Q9ndd1 leishmania	808	155.5	5.0	1135	2	Q84RP6	Q84rp6 arabidopsis
736	159	5.1	695	2	Q93539	Q93539 caenorhabdi	809	155.5	5.0	1334	2	Q9RKR9	Q9rkr9 streptomyce
737	159	5.1	964	2	Q8GU22	Q8gu22 homo sapien	810	155	4.9	347	2	Q9DE00	Q9de00 petromyzon
738	159	5.1	984	1	RIN3_HUMAN	Q8tb24 homo sapien	811	155	4.9	504	2	Q86WK7	Q86wk7 homo sapien
739	159	5.1	985	2	Q76LB3	Q76lb3 homo sapien	812	155	4.9	523	2	Q96JH6	Q96jh6 homo sapien
740	159	5.1	1119	2	Q8Z0H2	Q8z0h2 anabaena sp	813	155	4.9	576	2	Q6Z8P4	Q6z8p4 oryza sativ
741	158.5	5.1	163	2	Q6E4E4	Q6e4e4 petromyzon	814	155	4.9	719	2	Q8VJQ6	Q8vjq6 mycobacteri
742	158.5	5.1	166	2	Q6E4E6	Q6e4e6 petromyzon	815	155	4.9	825	2	Q62JU8	Q62ju8 brkholderi
743	158.5	5.1	417	2	Q15828	Q15828 leishmania	816	155	4.9	961	2	P90920	P90920 caenorhabdi
744	158.5	5.1	656	2	Q19312	Q19312 caenorhabdi	817	155	4.9	1041	1	TLR8_HUMAN	Q9nr97 homo sapien
745	158.5	5.1	738	2	Q93373	Q93373 caenorhabdi	818	155	4.9	1041	2	Q6UXL6	Q6uxl6 homo sapien
746	158.5	5.1	845	2	Q7Q090	Q7q090 anopheles g	819	155	4.9	1344	2	Q9SM94	Q9sm94 oryza sativ
747	158.5	5.1	953	2	Q9V701	Q9v701 drosophila	820	154.5	4.9	219	2	Q90WZ2	Q90wz2 gallus gall
748	158.5	5.1	1007	2	Q8MQJ9	Q8mqj9 aedes aegyp	821	154.5	4.9	376	2	Q8IV47	Q8iv47 homo sapien
749	158.5	5.1	1032	1	TLR8_MOUSE	P98682 mus musculus	822	154.5	4.9	524	1	LRR1_MOUSE	Q80vq1 mus musculus
750	158.5	5.1	1061	2	Q655V6	Q655v6 oryza sativ	823	154.5	4.9	548	2	Q9VJUI	Q9vjui drosophila
751	158.5	5.1	1123	2	Q65XS7	Q65xs7 oryza sativ	824	154.5	4.9	550	2	Q9AXI8	Q9axi8 oryza sativ
752	158.5	5.1	1124	2	Q7LGG9	Q7lgg9 homo sapien	825	154.5	4.9	631	2	Q8TNI4	Q8tni4 methanosarc
753	158.5	5.1	1181	2	Q7ZZ35	Q7zz35 brachydanio	826	154.5	4.9	1013	2	Q9M0G7	Q9m0g7 arabidopsis
754	158.5	5.1	1202	2	Q8WXE0	Q8wxe0 homo sapien	827	154.5	4.9	1109	2	Q6YT77	Q6yt77 oryza sativ
755	158.5	5.1	1300	2	Q9NKK6	Q9nkk6 drosophila	828	154.5	4.9	1143	2	Q9SUB9	Q9sub9 arabidopsis
756	158	5.0	317	2	Q96B32	Q96b32 homo sapien	829	154.5	4.9	1192	1	EXS_ARATH	Q9lyn8 arabidopsis
757	158	5.0	352	1	KERA_HUMAN	Q60938 homo sapien	830	154.5	4.9	1961	2	Q6MG89	Q6mg89 rattus norv
758	158	5.0	377	2	Q7ZU33	Q7zu33 leptospira	831	154.5	4.9	2517	1	NCR2_HUMAN	Q9y618 h nucelear r
759	158	5.0	510	2	Q9NIR8	Q9nir8 dictyosteli	832	154	4.9	399	2	Q8STX6	Q8stx6 eucephalito
760	158	5.0	554	2	Q7QHO2	Q7qhq2 anopheles g	833	154	4.9	458	2	Q9VUI3	Q9vui3 drosophila
761	158	5.0	741	2	Q9VJA9	Q9vja9 drosophila	834	154	4.9	491	2	Q6KAP0	Q6kap0 mus musculus

835	154	4.9	530	2	P97830	P97830 rattus norv	908	151	4.8	1385	2	Q9V8Z5	Q9V8Z5 drosophila
836	154	4.9	584	2	Q49751	Q49751 aradidopsis	909	151	4.8	1389	2	Q24591	Q24591 drosophila
837	154	4.9	584	2	Q8L7Z2	Q8L7Z2 aradidopsis	910	150.5	4.8	289	2	Q8F3F4	Q8F3F4 leptospira
838	154	4.9	812	2	Q9VFY9	Q9VFY9 drosophila	911	150.5	4.8	329	2	Q8F115	Q8F115 leptospira
839	154	4.9	825	2	Q63U08	Q63U08 burkholderi	912	150.5	4.8	408	2	Q8F212	Q8F212 leptospira
840	154	4.9	953	2	Q8VYG7	Q8VYG7 aradidopsis	913	150.5	4.8	413	2	Q7ZTC4	Q7ZTC4 leptospira
841	154	4.9	1845	2	Q80UA8	Q80UA8 mus musculus	914	150.5	4.8	423	1	OMD_RAT	Q9Z187 rattus norv
842	153.5	4.9	163	2	Q6E4L8	Q6E4L8 petromyzon	915	150.5	4.8	537	2	Q9C769	Q9C769 aradidopsis
843	153.5	4.9	166	2	Q6E4G9	Q6E4G9 petromyzon	916	150.5	4.8	648	2	Q8BU93	Q8BU93 m mus muscu
844	153.5	4.9	403	2	Q96CK6	Q96CK6 homo sapien	917	150.5	4.8	685	2	Q6AXL3	Q6AXL3 brachydanio
845	153.5	4.9	655	2	Q9PBR7	Q9PBR7 streptomyce	918	150.5	4.8	695	1	FSHR_HUMAN	P23945 homo sapien
846	153.5	4.9	685	2	Q72TH0	Q72TH0 leptospira	919	150.5	4.8	818	2	Q76CU0	Q76CU0 paralichthy
847	153.5	4.9	685	2	Q8F1V0	Q8F1V0 leptospira	920	150.5	4.8	1107	2	Q8BKP3	Q8BKP3 m mus muscu
848	153.5	4.9	802	2	Q8L4U4	Q8L4U4 oryza sativ	921	150.5	4.8	1109	1	RPX1_IPONI	P93194 ipomoea nil
849	153.5	4.9	864	2	Q8LPG4	Q8LPG4 aradidopsis	922	150.5	4.8	1140	2	Q9LR04	Q9LR04 aradidopsis
850	153.5	4.9	864	2	Q9T033	Q9T033 aradidopsis	923	150.5	4.8	1149	2	Q6GQR9	Q6GQR9 mus musculus
851	153.5	4.9	894	2	Q8N5L2	Q8N5L2 homo sapien	924	150.5	4.8	1461	2	Q94H87	Q94H87 oryza sativ
852	153.5	4.9	1032	1	TLR9_HUMAN	Q9N96 homo sapien	925	150.5	4.8	1575	2	Q7PS39	Q7PS39 anopheles g
853	153.5	4.9	1041	2	Q9F1I5	Q9F1I5 aradidopsis	926	150.5	4.8	1898	2	Q6ZP14	Q6ZP14 mus musculus
854	153.5	4.9	1110	2	Q9F1I7	Q9F1I7 aradidopsis	927	150	4.8	163	2	Q6E4E8	Q6E4E8 petromyzon
855	153.5	4.9	1121	2	Q942F3	Q942F3 oryza sativ	928	150	4.8	259	1	LR3B_HUMAN	Q960b8 homo sapien
856	153.5	4.9	3247	2	Q6S553	Q6S553 bovine herp	929	150	4.8	259	1	LR3B_HUMAN	Q8Vcb9 mus musculus
857	153.5	4.9	3247	2	Q77CD4	Q77CD4 bovine herp	930	150	4.8	272	1	PGS1_PIG	Q9GK6 sus scrofa
858	153	4.9	367	2	Q6GLE8	Q6GLE8 xenopus tro	931	150	4.8	305	2	Q9N028	Q9N028 macaca fasc
859	153	4.9	581	2	Q9D5Q5	Q9D5Q5 m mus muscu	932	150	4.8	348	2	Q7S6S8	Q7S6S8 ashbya goss
860	153	4.9	590	2	Q9D2F4	Q9D2F4 m mus muscu	933	150	4.8	367	2	Q86X40	Q86X40 homo sapien
861	153	4.9	687	2	Q7Q549	Q7Q549 anopheles g	934	150	4.8	584	2	Q49750	Q49750 aradidopsis
862	153	4.9	699	1	VGLG_HHV2H	P13290 human herp	935	150	4.8	652	2	Q8GUM9	Q8GUM9 aradidopsis
863	153	4.9	720	2	Q6POA5	Q6POA5 sparus aura	936	150	4.8	796	2	Q76L23	Q76L23 sus scrofa
864	153	4.9	1840	2	Q9ULI4	Q9ULI4 homo sapien	937	150	4.8	802	2	Q8LFN2	Q8LFN2 aradidopsis
865	153	4.9	2042	2	Q6E7L8	Q6E7L8 sus scrofa	938	150	4.8	803	2	Q9SRV4	Q9SRV4 aradidopsis
866	152.5	4.9	163	2	Q6E4F3	Q6E4F3 petromyzon	939	150	4.8	1064	2	Q6P7W6	Q6P7W6 mus musculus
867	152.5	4.9	494	2	Q9AXA4	Q9AXA4 oryza sativ	940	150	4.8	1294	2	Q8RZV7	Q8RZV7 oryza sativ
868	152.5	4.9	558	2	Q7PT66	Q7PT66 anopheles g	941	150	4.8	1305	2	Q80VF9	Q80VF9 mus musculus
869	152.5	4.9	577	2	Q8AVI4	Q8AVI4 xenopus lae	942	150	4.8	1315	1	CHAO_DROME	P12024 drosophila
870	152.5	4.9	581	2	Q9AN90	Q9AN90 bradyrhizob	943	149.5	4.8	98	2	Q9XKG3	Q9XKG3 gallus gall
871	152.5	4.9	585	2	Q89TL5	Q89TL5 bradyrhizob	944	149.5	4.8	163	2	Q6E4E9	Q6E4E9 petromyzon
872	152.5	4.9	849	1	LAPI_DROME	Q9V780 drosophila	945	149.5	4.8	164	2	Q6E4G8	Q6E4G8 petromyzon
873	152.5	4.9	1109	2	Q8HAJ0	Q8HAJ0 oryza sativ	946	149.5	4.8	167	2	Q6E4I1	Q6E4I1 petromyzon
874	152.5	4.9	1295	2	Q8TOX1	Q8TOX1 bombyx mori	947	149.5	4.8	224	2	Q44086	Q44086 caenorhabdi
875	152.5	4.9	1356	2	Q8WRE2	Q8WRE2 anopheles g	948	149.5	4.8	542	2	Q6V4C6	Q6V4C6 drosophila
876	152.5	4.9	3288	2	Q7T5D9	Q7T5D9 cercopithe	949	149.5	4.8	657	2	Q6L569	Q6L569 oryza sativ
877	152	4.8	364	2	Q8BS51	Q8BS51 mus musculus	950	149.5	4.8	696	2	Q9DGF5	Q9DGF5 cynops pyrr
878	152	4.8	443	1	LR17_MOUSE	Q9CXD9 mus musculus	951	149.5	4.8	894	2	Q8GYR8	Q8GYR8 aradidopsis
879	152	4.8	562	2	Q9MTW9	Q9MTW9 aradidopsis	952	149.5	4.8	957	2	Q9SRL2	Q9SRL2 aradidopsis
880	152	4.8	776	2	Q6R2K3	Q6R2K3 aradidopsis	953	149.5	4.8	1056	2	Q8S7A6	Q8S7A6 oryza sativ
881	152	4.8	786	1	TLR1_HUMAN	Q15399 homo sapien	954	149.5	4.8	1056	2	Q7XFM6	Q7XFM6 oryza sativ
882	152	4.8	786	2	Q6FI64	Q6FI64 homo sapien	955	149	4.8	167	2	Q6S4D3	Q6S4D3 petromyzon
883	152	4.8	796	1	TLR6_HUMAN	Q9Y2C9 homo sapien	956	149	4.8	295	2	Q86DD0	Q86DD0 caenorhabdi
884	151.5	4.8	347	2	Q9D9Q0	Q9D9Q0 mus musculus	957	149	4.8	310	2	Q86S81	Q86S81 caenorhabdi
885	151.5	4.8	695	1	FSHR_MACFA	P32312 macaca fasc	958	149	4.8	341	2	Q9N5D7	Q9N5D7 caenorhabdi
886	151.5	4.8	855	2	Q8L3V5	Q8L3V5 glycine max	959	149	4.8	375	2	Q9N4Z5	Q9N4Z5 caenorhabdi
887	151.5	4.8	997	2	Q6K7X5	Q6K7X5 oryza sativ	960	149	4.8	450	2	Q7Q6S9	Q7Q6S9 anopheles g
888	151.5	4.8	1109	2	Q84ZJ8	Q84ZJ8 oryza sativ	961	149	4.8	471	2	Q9LRV8	Q9LRV8 aradidopsis
889	151.5	4.8	1152	2	Q8WRE5	Q8WRE5 anopheles g	962	149	4.8	784	1	TLR2_CRIGR	Q9R1f8 cricetus
890	151.5	4.8	1152	2	Q7PFC4	Q7PFC4 anopheles g	963	149	4.8	927	2	Q8N537	Q8N537 homo sapien
891	151	4.8	163	2	Q6E4H9	Q6E4H9 petromyzon	964	149	4.8	1025	2	Q40640	Q40640 oryza sativ
892	151	4.8	399	2	Q7PMK9	Q7PMK9 anopheles g	965	149	4.8	1025	2	Q7DMC2	Q7DMC2 oryza longi
893	151	4.8	289	2	Q8BM45	Q8BM45 m mus muscu	966	149	4.8	1143	2	Q9ZPS9	Q9ZPS9 aradidopsis
894	151	4.8	530	2	Q08934	Q08934 mus musculus	967	149	4.8	1504	2	Q6PGP3	Q6PGP3 homo sapien
895	151	4.8	540	2	Q6V6S6	Q6V6S6 drosophila	968	149	4.8	1504	2	Q6P1B4	Q6P1B4 homo sapien
896	151	4.8	540	2	P93666	P93666 helianthus	969	149	4.8	1504	2	Q7Z2X6	Q7Z2X6 homo sapien
897	151	4.8	541	2	Q6V6S8	Q6V6S8 drosophila	970	149	4.8	1504	2	Q9UES6	Q9UES6 homo sapien
898	151	4.8	541	2	Q6V6S9	Q6V6S9 drosophila	971	149	4.8	1522	2	Q15069	Q15069 homo sapien
899	151	4.8	541	2	Q6V6T0	Q6V6T0 drosophila	972	149	4.8	1528	2	Q9X2I1	Q9X2I1 homo sapien
900	151	4.8	570	2	Q7PTF7	Q7PTF7 anopheles g	973	149	4.8	1874	2	Q75F93	Q75F93 ashbya goss
901	151	4.8	581	2	Q04143	Q04143 silene lati	974	149	4.8	2357	2	Q869S1	Q869S1 dictyosteli
902	151	4.8	784	2	Q6YGU2	Q6YGU2 rattus norv	975	149	4.8	2357	2	Q9U1M8	Q9U1M8 dictyosteli
903	151	4.8	793	2	Q704V6	Q704V6 bos taurus	976	148.5	4.7	163	2	Q6E4F7	Q6E4F7 petromyzon
904	151	4.8	793	2	Q706D2	Q706D2 bos taurus	977	148.5	4.7	215	2	Q91VH8	Q91VH8 mus musculus
905	151	4.8	835	1	TLR4_MOUSE	Q9UK6 mus musculus	978	148.5	4.7	321	2	Q6X8P9	Q6X8P9 bos taurus
906	151	4.8	947	2	Q8RUT5	Q8RUT5 oryza sativ	979	148.5	4.7	375	1	FMOD_BOVIN	P13605 bos taurus
907	151	4.8	1030	2	Q8H037	Q8H037 oryza sativ	980	148.5	4.7	376	1	FMOD_RAT	P50609 rattus norv

981	148.5	4.7	610	2	Q21604	Q21604 caenorhabdi	1054	146	4.7	661	2	Q8C251	Q8C251 mus musculu
982	148.5	4.7	646	2	Q8PQD3	Q8pgd3 xanthomonas	1055	146	4.7	673	2	Q6K014	Q6k014 bothrops ja
983	148.5	4.7	680	2	Q33374	Q33374 caenorhabdi	1056	146	4.7	785	2	Q9LVN2	Q9lvn2 arabidopsis
984	148.5	4.7	807	2	Q6GPJ8	Q6gpj8 xenopus lae	1057	146	4.7	788	2	Q18510	Q18510 trichoplusi
985	148.5	4.7	890	2	Q9LQ11	Q9lq11 arabidopsis	1058	146	4.7	827	2	Q6R0H4	Q6r0h4 mus musculu
986	148.5	4.7	964	2	Q7QHY9	Q7qhy9 anopheles g	1059	146	4.7	876	2	Q6R0H5	Q6r0h5 mus musculu
987	148.5	4.7	964	2	Q8VYT7	Q8vyt7 arabidopsis	1060	146	4.7	1133	2	Q6R0H7	Q6r0h7 mus musculu
988	148.5	4.7	964	2	Q9LY03	Q9ly03 arabidopsis	1061	146	4.7	1135	2	Q8W0A8	Q8w0a8 oryza sativ
989	148.5	4.7	1013	2	Q86PY9	Q86py9 homo sapien	1062	146	4.7	1173	2	Q8FL28	Q8fl28 arabidopsis
990	148.5	4.7	1016	2	Q9LRT1	Q9lrl1 arabidopsis	1063	146	4.7	1413	2	Q7F8Q9	Q7f8q9 oryza sativ
991	148.5	4.7	1099	2	Q8WXE4	Q8wxex4 homo sapien	1064	145.5	4.6	167	2	Q6E4F4	Q6e4f4 petromyzon
992	148.5	4.7	1115	1	Q7GCR LYMST	Q7gcr23 lymphoc sta	1065	145.5	4.6	352	2	Q7QXN1	Q7qxn1 oryza sativ
993	148.5	4.7	1140	2	Q7S7I8	Q7s7i8 neurospora	1066	145.5	4.6	380	1	FMOD CHICK	FM087 gallus gall
994	148	4.7	311	2	Q8FL16	Q8fl16 leptospira	1067	145.5	4.6	687	1	FSHR_EQUAS	Q95179 equus asinu
995	148	4.7	338	1	LUM RAT	PS1886 rattus norv	1068	145.5	4.6	807	2	Q18511	Q18511 trichoplusi
996	148	4.7	572	2	Q7ZS79	Q7zst79 leptospira	1069	145.5	4.6	827	2	Q6ZG00	Q6zsg00 oryza sativ
997	148	4.7	724	2	Q6S1V0	Q6s1v0 oryza sativ	1070	145.5	4.6	886	1	VGP3_EBVA8	P68343 epstein-bar
998	148	4.7	745	2	Q89X06	Q89x06 bradyrhizob	1071	145.5	4.6	886	1	VGP3_EBVP3	P68344 epstein-bar
999	148	4.7	1095	2	Q6URA2	Q6ura2 malus bacca	1072	145.5	4.6	1453	2	Q9Y6T1	Q9y6t1 homo sapien
1000	148	4.7	1188	2	Q41805	Q41805 zea mays (m	1073	145.5	4.6	2142	1	BAT2_HUMAN	P48634 homo sapien
1001	148	4.7	1964	1	NTC4_MOUSE	P31695 mus musculu	1074	145	4.6	338	1	LUM_HUMAN	PS1884 homo sapien
1002	148	4.7	2143	2	Q75T35	Q75t35 glomerella	1075	145	4.6	672	2	Q6ERW2	Q6erw2 oryza sativ
1003	147.5	4.7	163	2	Q6E4M8	Q6e4m8 petromyzon	1076	145	4.6	694	1	FSHR HORSE	Q67799 equus cabal
1004	147.5	4.7	316	1	PGLB_CHICK	Q90944 gallus gall	1077	145	4.6	700	2	Q9XDN9	Q9xdn9 streptomyce
1005	147.5	4.7	370	1	LR19_HUMAN	Q9h756 homo sapien	1078	145	4.6	742	2	Q81ZX5	Q81zx5 salmonella
1006	147.5	4.7	376	1	FMOD_MOUSE	PS0608 mus musculu	1079	145	4.6	747	2	Q22187	Q22187 caenorhabdi
1007	147.5	4.7	376	2	Q8BNU3	Q8bnu3 mus musculu	1080	145	4.6	941	2	Q8P941	Q8p941 xanthomonas
1008	147.5	4.7	404	2	Q7TPZ1	Q7tpz1 mus musculu	1081	145	4.6	1032	1	TLR9_MOUSE	Q9eq3 mus musculu
1009	147.5	4.7	499	2	Q8VYG9	Q8vyg9 arabidopsis	1082	145	4.6	1395	2	Q88KC1	Q88kc1 pseudomonas
1010	147.5	4.7	541	2	Q6V6S5	Q6v6s5 drosophila	1083	145	4.6	1839	1	CYAA_SACKL	P23466 saccharomyc
1011	147.5	4.7	646	2	Q83XD4	Q83xd4 xanthomonas	1084	144.5	4.6	163	2	Q6E4G3	Q6e4g3 petromyzon
1012	147.5	4.7	964	2	Q8L3T4	Q8l3t4 oryza sativ	1085	144.5	4.6	260	2	Q8STV7	Q8stv7 encephalito
1013	147.5	4.7	1052	2	Q8K2G4	Q8k2g4 oryza sativ	1086	144.5	4.6	301	2	Q72PU2	Q72pu2 leptospira
1014	147.5	4.7	1099	2	Q8PFC6	Q8pnf8 homo sapien	1087	144.5	4.6	312	2	Q6UY49	Q6uy49 homo sapien
1015	147.5	4.7	1194	2	Q8QCM6	Q8qcm6 mus musculu	1088	144.5	4.6	333	2	Q8MTS4	Q8mtis4 sus scrofa
1016	147.5	4.7	1385	2	Q7JPR9	Q7jpr9 drosophila	1089	144.5	4.6	338	1	LUM_MOUSE	PS1885 mus musculu
1017	147.5	4.7	2157	2	Q95875	Q95875 homo sapien	1090	144.5	4.6	392	2	Q9VR83	Q9vr83 drosophila
1018	147.5	4.7	2157	2	Q96QC5	Q96qc5 homo sapien	1091	144.5	4.6	434	2	Q7XK44	Q7xk44 oryza sativ
1019	147.5	4.7	2157	2	Q9P9P7	Q9p9p7 homo sapien	1092	144.5	4.6	447	2	Q8EA32	Q8ea32 shewanella
1020	147	4.7	272	2	Q7PND5	Q7pnd5 leptospira	1093	144.5	4.6	486	2	Q9LQ21	Q9lq21 arabidopsis
1021	147	4.7	388	2	Q9DDZ9	Q9ddz9 petromyzon	1094	144.5	4.6	692	2	Q8GYC3	Q8gyc3 homo sapien
1022	147	4.7	499	2	Q8F3F9	Q8f3f9 leptospira	1095	144.5	4.6	886	2	Q9QP87	Q9qp87 human herpe
1023	147	4.7	526	2	Q84GT9	Q84gt9 yersinia en	1096	144.5	4.6	980	1	RIN3_MOUSE	PS9729 mus musculu
1024	147	4.7	643	2	Q7Q8J4	Q7q8j4 anopheles g	1097	144.5	4.6	1089	2	Q7X2F4	Q7x2f4 streptomyce
1025	147	4.7	835	2	Q8K2T5	Q8k2t5 mus musculu	1098	144.5	4.6	1451	2	Q7LG11	Q7lgl1 homo sapien
1026	147	4.7	960	2	Q8K7T8	Q8k7t8 oryza sativ	1099	144.5	4.6	1608	2	Q96RK0	Q96rk0 homo sapien
1027	147	4.7	1005	2	Q7PSW2	Q7psw2 anopheles g	1100	144.5	4.6	1855	2	Q80ZF0	Q80zf0 rattus norv
1028	147	4.7	1063	2	Q7Q548	Q7q548 anopheles g	1101	144.5	4.6	2187	2	P70670	P70670 mus musculu
1029	147	4.7	1118	2	Q76CZ4	Q76cz4 hordeum vul	1102	144.5	4.6	3149	1	TEGU_EBV	TEG070 epstein-bar
1030	147	4.7	1118	2	Q76CZ5	Q76cz5 hordeum epo	1103	144.5	4.6	3149	2	Q777G4	Q777g4 human herpe
1031	147	4.7	1118	2	Q76CZ6	Q76cz6 hordeum vul	1104	144.5	4.6	3179	2	Q8V2M4	Q8v2m4 human herpe
1032	147	4.7	2414	1	P300_HUMAN	Q09472 homo sapien	1105	144	4.6	232	2	Q66WJ8	Q66wj8 felis silve
1033	147	4.7	2805	1	MAPA_HUMAN	P78559 homo sapien	1106	144	4.6	585	2	Q74G77	Q74g77 geobacter s
1034	146.5	4.7	325	2	Q8NAB7	Q8nab7 homo sapien	1107	144	4.6	661	1	C180_HUMAN	Q99467 homo sapien
1035	146.5	4.7	382	2	Q9S2H9	Q9szh9 arabidopsis	1108	144	4.6	675	2	Q8BMT4	Q8bmt4 m mus muscu
1036	146.5	4.7	383	2	Q8RWE5	Q8rwe5 arabidopsis	1109	144	4.6	695	1	FSHR_BOVIN	PS3776 bos taurus
1037	146.5	4.7	409	2	Q8P3D8	Q8p3d8 mus musculu	1110	144	4.6	851	2	Q9QP86	Q9qp86 human herpe
1038	146.5	4.7	438	2	Q7WA81	Q7wa81 bordetella	1111	144	4.6	853	2	Q14333	Q14333 homo sapien
1039	146.5	4.7	508	2	Q80ZD5	Q80zd5 rattus norv	1112	144	4.6	967	2	Q6K3W2	Q6k3w2 oryza sativ
1040	146.5	4.7	521	2	Q6ZPW2	Q6zpw2 mus musculu	1113	144	4.6	1019	2	Q9C699	Q9c699 arabidopsis
1041	146.5	4.7	524	2	Q6DJK2	Q6djk2 xenopus lae	1114	144	4.6	1072	2	Q69X93	Q69x93 oryza sativ
1042	146.5	4.7	675	2	Q80WJ1	Q80wj1 mus musculu	1115	144	4.6	1077	2	Q9NJG7	Q9njg7 drosophila
1043	146.5	4.7	717	2	Q7FIK6	Q7fik6 oryza sativ	1116	144	4.6	1266	2	Q7MTS7	Q7mts7 porphyronon
1044	146.5	4.7	861	2	Q69JZ8	Q69jz8 oryza sativ	1117	144	4.6	3326	2	Q7T591	Q7t591 cercopithec
1045	146.5	4.7	906	2	Q6QN09	Q6qnu9 mus musculu	1118	143.5	4.6	162	2	Q6E4H1	Q6e4h1 petromyzon
1046	146.5	4.7	925	2	Q9SIX4	Q9six4 arabidopsis	1119	143.5	4.6	243	2	Q25335	Q25335 leishmania
1047	146.5	4.7	950	2	Q8MQN5	Q8mqn5 drosophila	1120	143.5	4.6	425	2	Q9XTT6	Q9xtt6 caenorhabdi
1048	146.5	4.7	1016	2	Q8SPM0	Q8spm0 zea mays (m	1121	143.5	4.6	432	2	Q8RL77	Q8rl77 xanthomonas
1049	146.5	4.7	1407	2	Q9VB65	Q9vb65 drosophila	1122	143.5	4.6	447	2	Q7WJB6	Q7wjb6 bordetella
1050	146.5	4.7	1408	1	SERR_DROME	P18168 drosophila	1123	143.5	4.6	496	1	TNM_ARATH	Q9sdl1 arabidopsis
1051	146.5	4.7	1439	2	Q88NY1	Q88ny1 pseudomonas	1124	143.5	4.6	524	2	Q6PIV2	Q6piv2 xenopus tro
1052	146.5	4.7	1860	2	Q8IZC6	Q8izc6 homo sapien	1125	143.5	4.6	605	2	Q9LFT7	Q9lft7 arabidopsis
1053	146	4.7	369	2	Q91332	Q91332 pseudomonas	1126	143.5	4.6	613	2	Q8RWK7	Q8rkw7 arabidopsis

1127	143.5	4.6	632	2	Q7QJA7	Q7qja7 anopheles g	1200	141	4.5	298	2	Q7Q757	Q7q757 anopheles g
1128	143.5	4.6	661	2	Q7YRL4	Q7yrl4 sus scrofa	1201	141	4.5	424	2	Q73L62	Q73l62 trepenema d
1129	143.5	4.6	673	2	Q7T5C3	Q7t5c3 ceratophyc	1202	141	4.5	532	2	Q61133	Q61133 dictyosteli
1130	143.5	4.6	850	2	Q6K322	Q6k322 oryza sativ	1203	141	4.5	583	2	Q8N1G4	Q8n1g4 homo sapien
1131	143.5	4.6	1015	2	Q9FKU3	Q9fku3 arabisopsis	1204	141	4.5	586	2	Q21164	Q21164 caenorhabdi
1132	143.5	4.6	1067	2	Q6NVE5	Q6nve5 mus musculu	1205	141	4.5	630	1	INIB_LISMO	P25147 listeria mo
1133	143.5	4.6	1158	2	Q8GM32	Q8gm32 xenopus lae	1206	141	4.5	679	1	LAFI_CABEL	P61967 caenorhabdi
1134	143.5	4.6	1208	2	Q80YA8	Q80ya8 mus musculu	1207	141	4.5	699	2	Q6A580	Q6a580 caenorhabdi
1135	143.5	4.6	1214	2	Q6ZCZ2	Q6zcz2 oryza sativ	1208	141	4.5	798	2	Q76CT8	Q76ct8 paralichthy
1136	143.5	4.6	1320	2	Q8NGZ5	Q8ngz5 homo sapien	1209	141	4.5	926	2	Q6R5P0	Q6r5p0 mus musculu
1137	143.5	4.6	1421	2	Q9P257	Q9p257 homo sapien	1210	141	4.5	1023	2	Q84NG8	Q84ng8 hordeum vul
1138	143.5	4.6	1508	2	Q8UVH3	Q8uvh3 coturnix co	1211	140.5	4.5	245	2	Q7PNQ0	Q7pno0 anopheles g
1139	143.5	4.6	1636	2	Q9H3S7	Q9h3s7 homo sapien	1212	140.5	4.5	266	2	Q7ZS80	Q7z880 leptospira
1140	143.5	4.6	1682	2	Q15054	Q15054 homo sapien	1213	140.5	4.5	356	2	Q9Q0B5	Q9q0b5 human herpe
1141	143.5	4.6	2052	2	Q6CE40	Q6ce40 yarrowia li	1214	140.5	4.5	446	2	Q6AYD0	Q6ayd0 rattus norv
1142	143	4.6	156	2	Q6E4M4	Q6e4m4 petromyzon	1215	140.5	4.5	568	2	Q724E2	Q724e2 listeria m
1143	143	4.6	400	2	Q7W1F7	Q7w1f7 bordetella	1216	140.5	4.5	750	2	Q9AUC2	Q9auc2 zea mays (m
1144	143	4.6	508	2	Q8C2S7	Q8c2s7 mus musculu	1217	140.5	4.5	757	1	LGR7_HUMAN	Q9hbx9 homo sapien
1145	143	4.6	523	2	Q75K58	Q75k58 oryza sativ	1218	140.5	4.5	782	1	CHAO_TRICA	P82963 tribolium c
1146	143	4.6	566	2	Q7T0Y0	Q7t0y0 xenopus lae	1219	140.5	4.5	953	2	Q8GZ99	Q8gz99 arabisopsis
1147	143	4.6	705	2	Q6ZPH1	Q6zph1 mus musculu	1220	140.5	4.5	1021	1	PSXR_DAUCA	Q15404 daucus caro
1148	143	4.6	788	1	PCAP_HUMAN	Q6zph1 mus sapien	1221	140	4.5	276	1	RSUI_HUMAN	Q15404 mus sapien
1149	143	4.6	935	2	Q9PB17	Q9pb17 streptomyce	1222	140	4.5	330	2	Q8K2A9	Q8k2a9 mus musculu
1150	143	4.6	980	2	Q84EX0	Q84ex0 streptomyce	1223	140	4.5	449	2	Q658V8	Q658v8 homo sapien
1151	143	4.6	1026	2	Q6V495	Q6v495 drosophila	1224	140	4.5	474	2	Q59142	Q59142 aeromonas s
1152	143	4.6	1040	2	Q8S5G8	Q8s5g8 oryza sativ	1225	140	4.5	522	2	Q6NLJ7	Q6nlj7 drosophila
1153	143	4.6	1065	2	Q9LGI5	Q9lgi5 oryza sativ	1226	140	4.5	633	2	Q8BY16	Q8by16 mus musculu
1154	143	4.6	1434	2	Q7SE00	Q7se00 neurospora	1227	140	4.5	647	2	Q86NW5	Q86nw5 drosophila
1155	142.5	4.5	277	2	Q6GND8	Q6gnd8 xenopus lae	1228	140	4.5	650	2	Q7KSK8	Q7ksk8 drosophila
1156	142.5	4.5	376	2	Q7PYM1	Q7pym1 anopheles g	1229	140	4.5	693	2	Q9V3X1	Q9v3x1 drosophila
1157	142.5	4.5	459	2	Q7Q0F7	Q7q0f7 anopheles g	1230	140	4.5	720	2	Q9SPE9	Q9spe9 arabisopsis
1158	142.5	4.5	477	2	Q7Q5V6	Q7q5v6 anopheles g	1231	140	4.5	725	2	Q8T124	Q8t124 dictyosteli
1159	142.5	4.5	856	2	Q56854	Q56854 human herpe	1232	140	4.5	754	2	Q9ZQZ2	Q9zqz2 arabisopsis
1160	142.5	4.5	1031	2	Q8BNC8	Q8bnc8 mus musculu	1233	140	4.5	760	2	Q81G77	Q81g77 bacillus ce
1161	142.5	4.5	1052	2	Q6ZQ03	Q6zq03 mus musculu	1234	140	4.5	835	2	Q6K317	Q6k317 oryza sativ
1162	142.5	4.5	1077	2	Q9JHC1	Q9jhc1 mus musculu	1235	140	4.5	879	2	Q7PS89	Q7ps89 anopheles g
1163	142.5	4.5	1666	1	LTBA_MOUSE	Q8k4g1 mus musculu	1236	140	4.5	999	2	Q8Z432	Q8z432 malus domes
1164	142	4.5	243	2	Q8CEB3	Q8ceb3 mus musculu	1237	140	4.5	1029	2	Q9FRS6	Q9frs6 arabisopsis
1165	142	4.5	402	2	Q8NE41	Q8ne41 homo sapien	1238	140	4.5	1065	2	Q7EYF8	Q7eyf8 oryza sativ
1166	142	4.5	470	2	Q9LU11	Q9lu11 arabisopsis	1239	140	4.5	1172	2	Q9FWM3	Q9fwm3 oryza sativ
1167	142	4.5	567	2	Q33932	Q33932 listeria mo	1240	140	4.5	1175	2	Q7XDK0	Q7xdk0 oryza sativ
1168	142	4.5	633	2	Q8R063	Q8r063 mus musculu	1241	140	4.5	1509	1	GSRI_HUMAN	Q9nzm4 homo sapien
1169	142	4.5	661	1	C180_MOUSE	Q62192 mus musculu	1242	140	4.5	1690	2	Q9HFT8	Q9hft8 candida alb
1170	142	4.5	669	2	Q8BTT4	Q8btt4 m mus muscu	1243	140	4.5	1690	2	Q9P411	Q9p411 candida alb
1171	142	4.5	721	2	Q8BU17	Q8bu17 mus musculu	1244	140	4.5	1692	2	Q9P977	Q9p977 candida alb
1172	142	4.5	772	2	Q63E41	Q63e41 bacillus ce	1245	140	4.5	2082	2	Q6FW40	Q6fw40 candida gla
1173	142	4.5	896	2	Q7Q417	Q7q417 anopheles g	1246	139.5	4.4	164	2	Q6B4G5	Q6b4g5 petromyzon
1174	142	4.5	983	2	Q8L7L6	Q8l7l6 arabisopsis	1247	139.5	4.4	328	2	Q8K3K2	Q8k3k2 mus musculu
1175	142	4.5	983	2	Q9ZUK3	Q9zuk3 arabisopsis	1248	139.5	4.4	356	2	Q9Q0B2	Q9q0b2 human herpe
1176	142	4.5	1047	2	Q9LGH7	Q9lgh7 oryza sativ	1249	139.5	4.4	356	2	Q9Q0B3	Q9q0b3 human herpe
1177	142	4.5	1104	2	Q6Z8S8	Q6z8s8 oryza sativ	1250	139.5	4.4	356	2	Q9Q0B4	Q9q0b4 human herpe
1178	142	4.5	1173	2	Q84WF4	Q84wf4 arabisopsis	1251	139.5	4.4	356	2	Q9Q0B6	Q9q0b6 human herpe
1179	142	4.5	1270	2	Q6DKA2	Q6dka2 xenopus lae	1252	139.5	4.4	356	2	Q9Q0B9	Q9q0b9 human herpe
1180	142	4.5	2344	2	Q6N3Y8	Q6n3y8 caenorhabdi	1253	139.5	4.4	496	2	Q8GWY1	Q8gwy1 arabisopsis
1181	141.5	4.5	163	2	Q6E4G6	Q6e4g6 petromyzon	1254	139.5	4.4	506	2	Q9FFJ3	Q9ffj3 arabisopsis
1182	141.5	4.5	165	2	Q6E4M7	Q6e4m7 petromyzon	1255	139.5	4.4	527	2	Q9RUH2	Q9ruh2 deinococcus
1183	141.5	4.5	356	2	Q9Q0B7	Q9q0b7 human herpe	1256	139.5	4.4	539	2	Q8G334	Q8g334 mycobacteri
1184	141.5	4.5	356	2	Q9Q0B8	Q9q0b8 human herpe	1257	139.5	4.4	539	2	Q79F96	Q79f96 mycobacteri
1185	141.5	4.5	400	2	Q7UTG5	Q7utg5 rhodopirelli	1258	139.5	4.4	539	2	Q7TVM2	Q7tvm2 mycobacteri
1186	141.5	4.5	462	2	Q9SJH6	Q9sjh6 arabisopsis	1259	139.5	4.4	594	2	Q9LUQ2	Q9luq2 arabisopsis
1187	141.5	4.5	597	2	Q9VV09	Q9vv09 drosophila	1260	139.5	4.4	644	2	Q7SCQ9	Q7scq9 neurospora
1188	141.5	4.5	695	2	Q8R428	Q8r428 cavia porce	1261	139.5	4.4	696	2	Q98T85	Q98t85 ictalurus p
1189	141.5	4.5	836	2	Q9SCT4	Q9sct4 arabisopsis	1262	139.5	4.4	884	1	BC1B_MOUSE	Q99pv8 mus musculu
1190	141.5	4.5	877	2	Q6PCY3	Q6pcy3 mus musculu	1263	139.5	4.4	1027	2	Q6V657	Q6v657 drosophila
1191	141.5	4.5	1029	2	Q6S580	Q6s580 arabisopsis	1264	139.5	4.4	1102	2	Q18902	Q18902 caenorhabdi
1192	141.5	4.5	1047	2	Q6K213	Q6k213 oryza sativ	1265	139.5	4.4	4351	1	FA12_RAT	Q88277 rattus norv
1193	141.5	4.5	1051	2	Q24007	Q24007 drosophila	1266	139	4.4	288	2	Q8F2B3	Q8f2b3 leptospira
1194	141.5	4.5	1051	2	Q95PA9	Q95pa9 drosophila	1267	139	4.4	344	2	Q61QQ7	Q61qq7 brachydanio
1195	141.5	4.5	1076	2	Q8MLT4	Q8mlt4 drosophila	1268	139	4.4	559	2	Q6ZTM8	Q6ztm8 homo sapien
1196	141.5	4.5	1076	2	Q6AWQ3	Q6awq3 drosophila	1269	139	4.4	581	2	Q03876	Q03876 trypanosoma
1197	141.5	4.5	1084	2	Q6YVY8	Q6yvy8 oryza sativ	1270	139	4.4	603	2	Q22075	Q22075 caenorhabdi
1198	141.5	4.5	1309	2	Q6ZPV4	Q6zpv4 mus musculu	1271	139	4.4	657	2	Q6Z3S1	Q6z3s1 oryza sativ
1199	141.5	4.5	1376	2	Q7S5H8	Q7s5h8 neurospora	1272	139	4.4	720	2	Q80809	Q80809 arabisopsis

1273	139	4.4	720	2	Q9SP68	Q9sp68 arabidopsis	1346	137	4.4	695	1	FSHR_SHEEP	P35379 ovis aries
1274	139	4.4	789	2	Q9AGY6	Q9agy6 leifsonia x	1347	137	4.4	765	2	Q6HLL6	Q6hll6 bacillus th
1275	139	4.4	795	2	Q6GJTI	Q6gjt1 mus musculus	1348	137	4.4	788	2	Q8Z578	Q8z578 salmonella
1276	139	4.4	829	2	Q6N5Q1	Q6n5q1 rhodospseudo	1349	137	4.4	907	1	VGP3_EBV	P03200 epstein-bar
1277	139	4.4	919	2	Q9HAP2	Q9hap2 homo sapien	1350	137	4.4	907	2	Q777F0	Q777f0 human herpe
1278	139	4.4	918	2	Q8LJI9	Q8lji9 oryza sativ	1351	137	4.4	928	2	Q9IMX9	Q9imx9 cercopithec
1279	139	4.4	1010	2	Q8H3W8	Q8h3w8 oryza sativ	1352	137	4.4	998	2	Q7QE40	Q7qe40 anopheles g
1280	139	4.4	1088	2	Q9FZS9	Q9fzs9 arabidopsis	1353	137	4.4	999	2	Q6H845	Q6h845 oryza sativ
1281	139	4.4	1174	2	Q94854	Q94854 homo sapien	1354	137	4.4	1004	2	Q8CGA7	Q8cga7 mus musculus
1282	139	4.4	2240	2	Q9S1Z9	Q9s1z9 streptomyce	1355	137	4.4	1059	2	Q8LI36	Q8li36 oryza sativ
1283	139	4.4	2427	2	Q6ZRS2	Q6zrs2 homo sapien	1356	137	4.4	1081	2	Q6ETA1	Q6eta1 oryza sativ
1284	139	4.4	3053	2	Q15026	Q15026 homo sapien	1357	137	4.4	1120	2	Q84RP5	Q84rp5 arabidopsis
1285	139	4.4	5179	1	MUC2_HUMAN	Q02817 homo sapien	1358	137	4.4	1141	2	Q9LHP4	Q9lhp4 arabidopsis
1286	138.5	4.4	342	1	LUM_BOVIN	Q05443 bos taurus	1359	137	4.4	1154	2	Q9F2F0	Q9f2f0 homo sapien
1287	138.5	4.4	559	2	Q7PHC6	Q7phc6 anopheles g	1360	137	4.4	1165	2	Q89V92	Q89v92 bradyrhizob
1288	138.5	4.4	811	2	Q6UXL3	Q6uxl3 homo sapien	1361	137	4.4	1354	2	Q9EPW8	Q9epw8 mus musculus
1289	138.5	4.4	882	2	Q84WPI	Q84wpl arabidopsis	1362	137	4.4	1357	2	Q6BMU2	Q6bmud debaryomyce
1290	138.5	4.4	893	2	Q9LN98	Q9ln98 arabidopsis	1363	137	4.4	1431	2	Q8WXD9	Q8wxd9 homo sapien
1291	138.5	4.4	897	2	Q8GC27	Q8gc27 listeria iv	1364	137	4.4	2646	1	Q6XHA6	Q6xha6 dictyosteli
1292	138.5	4.4	902	2	Q8UPR6	Q8upr6 homo sapien	1365	137	4.4	4544	1	LRPI_HUMAN	Q07954 homo sapien
1293	138.5	4.4	990	2	Q9UG03	Q9ug03 homo sapien	1366	137	4.4	4545	2	Q91ZX7	Q91zx7 mus musculus
1294	138.5	4.4	1003	1	MBD6_HUMAN	Q99645 homo sapien	1367	137	4.4	4545	2	Q920Y4	Q920y4 mus musculus
1295	138.5	4.4	1003	2	Q6P0P0	Q6p0p0 homo sapien	1368	137	4.4	4545	2	Q61291	Q61291 mus musculus
1296	138.5	4.4	1012	2	Q9LKZ5	Q9lkz5 glycine max	1369	136.5	4.4	271	2	Q99LG6	Q99lg6 mus musculus
1297	138.5	4.4	1164	2	Q9LJF3	Q9ljf3 arabidopsis	1370	136.5	4.4	277	2	Q9D031	Q9d031 mus musculus
1298	138.5	4.4	1355	2	Q6P9K8	Q6p9k8 mus musculus	1371	136.5	4.4	301	2	Q8CF63	Q8cf63 mus musculus
1299	138.5	4.4	1650	2	Q9QVT6	Q9qvt6 rattus sp.	1372	136.5	4.4	356	2	Q9Q0C2	Q9q0c2 human herpe
1300	138	4.4	322	1	FLBL_MOUSE	Q99645 homo sapien	1373	136.5	4.4	356	2	Q9Q0C3	Q9q0c3 human herpe
1301	138	4.4	451	2	Q7QIS1	Q7qis1 anopheles g	1374	136.5	4.4	356	2	Q9Q0C4	Q9q0c4 human herpe
1302	138	4.4	465	2	Q641O7	Q641o7 homo sapien	1375	136.5	4.4	356	2	Q9Q0C5	Q9q0c5 human herpe
1303	138	4.4	491	2	Q9V793	Q9v793 drosophila	1376	136.5	4.4	356	2	Q9Q0C6	Q9q0c6 human herpe
1304	138	4.4	721	2	Q9NUY1	Q9nuyl homo sapien	1377	136.5	4.4	646	2	Q6QJ82	Q6qj82 xanthomonas
1305	138	4.4	727	2	Q80ZI6	Q80zi6 mus musculus	1378	136.5	4.4	673	2	Q8VJ25	Q8vj25 cercopithec
1306	138	4.4	784	2	Q6T752	Q6t752 equus caball	1379	136.5	4.4	811	1	TLRA_HUMAN	Q9b3r5 homo sapien
1307	138	4.4	788	2	Q9RPH0	Q9rph0 salmonella	1380	136.5	4.4	849	2	Q8CGE4	Q8cge4 mus musculus
1308	138	4.4	853	2	Q8C0R9	Q8c0r9 mus musculus	1381	136.5	4.4	933	2	Q69H08	Q69hq8 ciona intes
1309	138	4.4	883	2	Q9RF11	Q9rf11 myxococcus	1382	136.5	4.4	976	2	Q8GSS7	Q8gs87 pisum sativ
1310	138	4.4	943	2	Q9SLR7	Q9slr7 arabidopsis	1383	136.5	4.4	1013	2	Q6Z9M8	Q6z9m8 oryza sativ
1311	138	4.4	1020	2	Q73YI1	Q73yi1 mycobacteri	1384	136.5	4.4	1027	2	Q6V666	Q6v666 drosophila
1312	138	4.4	1034	2	Q8VHL7	Q8vhl7 mus musculus	1385	136.5	4.4	1027	2	Q6V669	Q6v669 drosophila
1313	138	4.4	1034	2	Q8V1K5	Q8vik5 mus musculus	1386	136.5	4.4	1027	2	Q6V671	Q6v671 drosophila
1314	138	4.4	1102	2	Q9LVP0	Q9lvp0 arabidopsis	1387	136.5	4.4	1027	2	Q6V672	Q6v672 drosophila
1315	138	4.4	1227	2	Q6FJIC	Q6fjic homo sapien	1388	136.5	4.4	1031	2	Q6JN47	Q6jln47 lycopersico
1316	138	4.4	1369	2	Q6O346	Q6o346 homo sapien	1389	136.5	4.4	1359	2	Q8CHH0	Q8chn0 mus musculus
1317	138	4.4	1900	2	Q6CJV3	Q6cvj3 kluyveromyc	1390	136.5	4.4	1456	2	Q6PDJ8	Q6pdj8 mus musculus
1318	138	4.4	1992	2	Q9P6T1	Q9p6t1 neurospora	1391	136.5	4.4	1458	2	Q757N5	Q757n5 ashbya goss
1319	137.5	4.4	328	1	OPT_MOUSE	Q920a0 mus musculus	1392	136.5	4.4	1606	2	Q924A2	Q924a2 mus musculus
1320	137.5	4.4	356	2	Q9Q0C1	Q9q0c1 human herpe	1393	136.5	4.4	2971	2	Q9Y5L9	Q9y5l9 homo sapien
1321	137.5	4.4	398	2	Q8ERN9	Q8ern9 oryza sativ	1394	136	4.3	339	2	Q6E4E7	Q6e4e7 petromyzon
1322	137.5	4.4	417	2	Q8HZ51	Q8hz51 canis famli	1395	136	4.3	293	2	Q7Q859	Q7q859 anopheles g
1323	137.5	4.4	423	1	OMD_MOUSE	Q95103 mus musculus	1396	136	4.3	321	1	FLBL_BOVIN	P79119 bos taurus
1324	137.5	4.4	656	2	Q9ASD8	Q9asd8 oryza sativ	1397	136	4.3	322	1	FLBL_MOUSE	P70186 mus musculus
1325	137.5	4.4	694	2	Q6R6L8	Q6r6l8 mesocricetu	1398	136	4.3	408	2	Q7PYM2	Q7pym2 anopheles g
1326	137.5	4.4	728	2	Q76N37	Q76n37 gallus gall	1399	136	4.3	440	2	Q8PD36	Q8pd36 xanthomonas
1327	137.5	4.4	784	2	Q8MIQ3	Q8miq3 cryptotlagus	1400	136	4.3	537	2	Q9VFD0	Q9vfd0 drosophila
1328	137.5	4.4	812	2	Q9FMT0	Q9fmc0 arabidopsis	1401	136	4.3	544	1	GF10_DICDI	Q66885 dictyosteli
1329	137.5	4.4	889	2	Q9F2N5	Q9f2n5 streptomyce	1402	136	4.3	586	2	Q6K7R2	Q6k7r2 oryza sativ
1330	137.5	4.4	926	2	Q9VVG2	Q9vvg2 drosophila	1403	136	4.3	628	2	Q8ZHA0	Q8zha0 yersinia pe
1331	137.5	4.4	1027	2	Q6V670	Q6v670 oryza sativ	1404	136	4.3	682	2	Q64183	Q64183 rattus sp.
1332	137.5	4.4	1086	2	Q6ZMQ0	Q6zmq0 homo sapien	1405	136	4.3	692	1	FSHR_RAT	P20395 rattus norv
1333	137.5	4.4	1115	2	Q7QB67	Q7qb67 anopheles g	1406	136	4.3	695	1	FSHR_PIG	P49059 sus scrofa
1334	137.5	4.4	1151	2	Q97580	Q97580 gallus gall	1407	136	4.3	737	1	LGRB_MOUSE	Q91225 mus musculus
1335	137.5	4.4	1325	2	Q9BKV7	Q9bkv7 leishmania	1408	136	4.3	750	2	Q9CW61	Q9cw61 mus musculus
1336	137.5	4.4	1430	2	Q8VHK2	Q8vhk2 rattus norv	1409	136	4.3	765	2	Q9XCV2	Q9xcv2 salmonella
1337	137.5	4.4	1437	2	Q6C1W8	Q6c1w8 yarrowia li	1410	136	4.3	766	2	Q6C1M0	Q6c1m0 yarrowia li
1338	137.5	4.4	4660	1	LRP2_RAT	P81158 rattus norv	1411	136	4.3	1008	1	PSKR_ARATH	Q92vr7 arabidopsis
1339	137	4.4	260	2	Q7Q6A5	Q7q6a5 anopheles g	1412	136	4.3	1696	2	Q9WTE8	Q9wtr8 rattus norv
1340	137	4.4	264	2	Q8BMW1	Q8bmwl m mus muscu	1413	136	4.3	2161	2	Q8MG48	Q8mg48 rattus norv
1341	137	4.4	357	2	Q9Q0C7	Q9q0c7 human herpe	1414	136	4.3	3084	2	Q8U211	Q8u211 pseudorabie
1342	137	4.4	357	2	Q9Q0C8	Q9q0c8 human herpe	1415	135.5	4.3	326	2	O22514	O22514 santalum al
1343	137	4.4	401	2	Q811K6	Q811k6 mus musculus	1416	135.5	4.3	427	1	MFGM_RAT	P70490 rattus norv
1344	137	4.4	542	2	Q81TD6	Q81td6 bacillus an	1417	135.5	4.3	464	2	Q8W4Q3	Q8w4q3 arabidopsis
1345	137	4.4	583	2	Q8BM77	Q8bm77 m mus muscu	1418	135.5	4.3	499	2	Q910Y0	Q910y0 pseudomonas



1419	135.5	4.3	652	2	Q86UU5	Q86uu5 homo sapien
1420	135.5	4.3	887	2	Q89KP2	Q89kp2 bradyrhizob
1421	135.5	4.3	981	2	Q6PFI6	Q6pf16 brachydanio
1422	135.5	4.3	998	2	Q6J3Z2	Q6j3z2 pyrus pyrif
1423	135.5	4.3	1012	2	Q9LKK24	Q9lkk24 glycine max
1424	135.5	4.3	1124	2	Q49318	Q49318 arabidopsis
1425	135.5	4.3	1625	2	Q6MVD4	Q6mvd4 neurospora
1426	135.5	4.3	5262	1	MLL2_HUMAN	Q14686 homo sapien
1427	135	4.3	407	2	Q86RS5	Q86rs5 manduca sex
1428	135	4.3	538	2	Q6SPF0	Q6spf0 homo sapien
1429	135	4.3	601	1	3BP1_MOUSE	P55194 mus musculu
1430	135	4.3	696	2	Q96MZ7	Q96mz7 homo sapien
1431	135	4.3	723	2	Q8NB40	Q8nb40 homo sapien
1432	135	4.3	723	2	Q96GT5	Q96gt5 homo sapien
1433	135	4.3	723	2	Q6UWE0	Q6uwe0 homo sapien
1434	135	4.3	727	2	Q8HXC8	Q8hxc8 macaca fasc
1435	135	4.3	765	2	Q8ZQO2	Q8zqo2 salmoneilla
1436	135	4.3	907	2	Q66537	Q66537 human herpe
1437	135	4.3	1049	2	Q75J19	Q75j19 oryza sativ
1438	135	4.3	1098	2	Q8WSK7	Q8wsk7 oryza sativ
1439	135	4.3	1098	2	Q7XH57	Q7xh57 oryza sativ
1440	135	4.3	1101	2	Q7XDJ5	Q7xdj5 oryza sativ
1441	135	4.3	1101	2	Q9FWL8	Q9fwl8 oryza sativ
1442	135	4.3	1257	1	FLIH_CAEEL	P34268 caenorhabdi
1443	135	4.3	1274	2	Q8LJ55	Q8lj55 oryza sativ
1444	135	4.3	1347	2	Q6ZPU2	Q6zpu2 mus musculu
1445	134.5	4.3	321	2	Q7PP59	Q7pp59 anopheles g
1446	134.5	4.3	384	2	Q78KN5	Q78kn5 mus musculu
1447	134.5	4.3	533	2	Q9VHV3	Q9vhv3 drosophila
1448	134.5	4.3	631	2	Q73051	Q73051 treponema d
1449	134.5	4.3	638	2	Q17989	Q17989 caenorhabdi
1450	134.5	4.3	719	2	Q8B987	Q8b987 m mus muscu
1451	134.5	4.3	765	2	Q9VBP0	Q9vbp0 drosophila
1452	134.5	4.3	770	2	Q9FL15	Q9fl15 arabidopsis
1453	134.5	4.3	784	2	Q9C9H6	Q9c9h6 arabidopsis
1454	134.5	4.3	802	1	ENAH_MOUSE	Q03173 mus musculu
1455	134.5	4.3	847	2	Q8TDF0	Q8tdf0 homo sapien
1456	134.5	4.3	847	2	Q9X1B6	Q9x1b6 arabidopsis
1457	134.5	4.3	871	2	Q8TF41	Q8tf41 homo sapien
1458	134.5	4.3	924	2	Q6ZWJ0	Q6zwj0 homo sapien
1459	134.5	4.3	941	2	Q8F857	Q8f857 leptospira
1460	134.5	4.3	1036	1	YR71_CAEEL	Q09564 caenorhabdi
1461	134.5	4.3	1045	2	Q6Z1W9	Q6ziw9 oryza sativ
1462	134.5	4.3	1124	2	Q8MQU8	Q8mqu8 aedes aegy
1463	134.5	4.3	1201	2	Q7TS77	Q7ts77 mus musculu
1464	134.5	4.3	1212	2	Q75N53	Q75n53 daucus caro
1465	134.5	4.3	1224	2	Q6ZPX1	Q6zpx1 mus musculu
1466	134.5	4.3	1494	2	Q67FY1	Q67fy1 homo sapien
1467	134.5	4.3	1499	2	Q86UU0	Q86uu0 homo sapien
1468	134.5	4.3	1514	2	Q82BH0	Q82bh0 streptomyc
1469	134.5	4.3	1569	2	Q6W4X9	Q6w4x9 homo sapien
1470	134.5	4.3	1616	2	Q72ND3	Q72nd3 leptospira
1471	134	4.3	412	2	Q8BWW2	Q8bmw2 mus musculu
1472	134	4.3	496	2	Q7U8L8	Q7u8l8 synchococc
1473	134	4.3	530	2	Q07701	Q07701 herpesvirus
1474	134	4.3	550	2	Q6SPE9	Q6spe9 cryptotlagus
1475	134	4.3	555	2	Q9U6R7	Q9u6r7 dermatophag
1476	134	4.3	805	2	Q66KF0	Q66kf0 xenopus lae
1477	134	4.3	886	2	Q94294	Q94294 schizosacch
1478	134	4.3	903	2	Q82HF3	Q82hf3 streptomyc
1479	134	4.3	915	2	Q8WWW2	Q8www2 homo sapien
1480	134	4.3	917	1	SMOO_HUMAN	P53814 homo sapien
1481	134	4.3	921	2	Q8W0U9	Q8w0u9 sorghum bic
1482	134	4.3	940	2	Q8WWW1	Q8www1 homo sapien
1483	134	4.3	940	2	Q6ZIU0	Q6ziu0 oryza sativ
1484	134	4.3	1050	2	Q9LGH9	Q9lgh9 oryza sativ
1485	134	4.3	1129	2	Q6P4K6	Q6p4k6 xenopus tro
1486	134	4.3	1314	2	Q8I172	Q8i172 drosophila
1487	134	4.3	1511	2	Q75412	Q75412 homo sapien
1488	134	4.3	2090	2	Q14676	Q14676 homo sapien
1489	133.5	4.3	239	2	Q8NLT6	Q8ntl6 homo sapien
1490	133.5	4.3	239	2	Q8NSN7	Q8nsn7 homo sapien
1491	133.5	4.3	276	1	RSU1_MOUSE	Q01730 mus musculu

Q25339 leishmania  
Q86917 glomeris ma  
Q8rv89 oryza sativ  
Q7g6q2 oryza sativ  
Q9vhw2 drosophila  
Q86nz3 drosophila  
Q8i1z1 homo sapien  
Q9h801 homo sapien  
Q6pff1 mus musculu

## ALIGNMENTS

## RESULT 1

Q6UXL5	PRELIMINARY;	PRT;	598 AA.
ID	Q6UXL5		
AC	Q6UXL5		
DT	05-JUL-2004 (TREMBlrel. 27, Created)		
DT	05-JUL-2004 (TREMBlrel. 27, Last sequence update)		
DT	05-JUL-2004 (TREMBlrel. 27, Last annotation update)		
DE	CSRV314.		
GN	ORFNames=UNQ314;		
OS	Homo sapiens (Human)		
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
OC	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
OX	NCBI_TaxID=9606;		
RN	[1]		
RP	SEQUENCE FROM N.A.		
RX	MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;		
RA	Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D., Brush J.,		
RA	Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,		
RA	Eaton D., Foster J., Grimaldi C., Gu Q., Hass P.E., Heidens S.,		
RA	Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,		
RA	Lewis L., Liao D., Mark M., Robbie E., Sanchez C., Schoenfeld J.,		
RA	Seshagiri S., Simons L., Singh J., Smith V., Stinson J., Vagts A.,		
RA	Vandlen R., Watanabe C., Wieand D., Woods K., Xie M.H., Yansura D.,		
RA	Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A., Wood W.I.,		
RA	Godowski P.;		
RT	"The secreted protein discovery initiative (SPDI), a large-scale		
RT	effort to identify novel human secreted and transmembrane proteins: a		
RT	bioinformatics assessment.";		
CC	Genome Res. 13:2265-2270(2003).		
CC	-!- SIMILARITY: Contains 1 EGF-like domain.		
DR	EMBL; AY359298; AAQ88665.1; -		
DR	InterPro: IPR000742; EGF_2.		
DR	InterPro: IPR006209; EGF_like.		
DR	InterPro: IPR003961; FN_III.		
DR	InterPro: IPR006210; IEGF.		
DR	InterPro: IPR001611; LRR.		
DR	InterPro: IPR000483; LRR_Cterm.		
DR	InterPro: IPR000372; LRR_Nterm.		
DR	InterPro: IPR003591; LRR_typ.		
DR	Pfam: PF00008; EGF_1.		
DR	Pfam: PF00041; fn3_1.		
DR	Pfam: PF01463; LRRCT; 1.		
DR	Pfam: PF01462; LRRNT; 1.		
DR	Pfam: PF00560; LRR_1; 5.		
DR	PRINTS; PR00019; LEURICHRPT.		
DR	SMART; SM00181; EGF; 1.		
DR	SMART; SM00082; LRRCT; 1.		
DR	SMART; SM00013; LRRNT; 1.		
DR	SMART; SM00369; LRR_TVP; 5.		
DR	PROSITE; PS00022; EGF_1; 1.		
DR	PROSITE; PS0186; EGF_2; 1.		
DR	PROSITE; PS0026; EGF_3; 1.		
DR	PROSITE; PS0853; FN3; 1.		
KW	EGF-like domain.		
SQ	SEQUENCE 598 AA; 63029 MW; C596CBE963AA86C CRC64;		

Query Match 100.0%; Score 3135; DB 2; Length 598;  
Best Local Similarity 100.0%; Pred. No. 4.9e-167;  
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;





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QY 106 LLALEPGILDTANVEALRLAGLQLOLDDEGLFSRLNLHDLVDSDNQLERVPVIRGLRG 165
Db 181 LLALEPGILDTANVEALRLAGLQLOLDDEGLFSRLNLHDLVDSDNQLERVPVIRGLRG 240
QY 166 LTRLRAGNTRIAQLRPEDLAGLAALQELDVSNLSQALPGDLGSLFPRLRLLLAAARNPF 225
Db 241 LTRLRAGNTRIAQLRPEDLAGLAALQELDVSNLSQALPGDLGSLFPRLRLLLAAARNPF 300
QY 226 NCVCPLSWFGPWRVRESHVTLASPEETRCHFPKQAGRLLELDYADFGLPATTATVPT 285
Db 301 NCVCPLSWFGPWRVRESHVTLASPEETRCHFPKQAGRLLELDYADFGLPATTATVPT 360
QY 286 TRPVVREPTALSSSLAPTWSLTAPATEAPSPSTAPPTVGPVQDCCPSTCLNGGTC 345
Db 361 TRPVVREPTALSSSLAPTWSLTAPATEAPSPSTAPPTVGPVQDCCPSTCLNGGTC 420
QY 346 HLGTRHHLACLCEGFTGLYCDSOMQGTSPSTPTVTPRPRSLTLGIEPVSPSTLRVGL 405
Db 421 HLGTRHHLACLCEGFTGLYCDSOMQGTSPSTPTVTPRPRSLTLGIEPVSPSTLRVGL 480
QY 406 QRYLOGSSVQLRSRLTYRNLSGPDKRLVTLRLPASLAETVTLQRLPNATYSVCMPLGP 465
Db 481 QRYLOGSSVQLRSRLTYRNLSGPDKRLVTLRLPASLAETVTLQRLPNATYSVCMPLGP 540
QY 466 GRVPEGEACGEAHTPPAVHSNHAPVTOAREGNLPLLIAPALAAVLLAALAAVGAAYCVR 525
Db 541 GRVPEGEACGEAHTPPAVHSNHAPVTOAREGNLPLLIAPALAAVLLAALAAVGAAYCVR 600
QY 526 RGRAMAAAQDKGVGPGAGPLEGKVPLEPGPKATEGGGEALPSGSECEVPLMGFP 585
Db 601 RGRAMAAAQDKGVGPGAGPLEGKVPLEPGPKATEGGGEALPSGSECEVPLMGFP 660
QY 586 PGLQSPHLHAKPYI 598
Db 661 PGLQSPHLHAKPYI 673

RESULT 3
Q6EMK4
ID Q6EMK4 PRELIMINARY; PRT; 673 AA.
AC Q6EMK4;
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE Vasorin.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX PubMed=15247411; DOI=10.1073/pnas.0404117101;
RA Ikeda Y., Imai Y., Kunagai H., Noseka T., Morikawa Y., Hisaoka T.,
RA Manabe I., Maemura K., Nakaoka T., Imamura T., Miyazono K., Komuro I.,
RA Nagai R., Kitamura T.;
RT "Vasorin, a transforming growth factor (beta)-binding protein
RT expressed in vascular smooth muscle cells, modulates the arterial
RT response to injury in vivo.";
RL Proc. Natl. Acad. Sci. U.S.A. 101:10732-10737(2004).
CC -!- SIMILARITY: Contains 1 EGF-like domain.
DR EMBL; AY166584; AAO27704.1; -.
DR InterPro; IPR000742; EGF_2.
DR InterPro; IPR006209; EGF-like.
DR InterPro; IPR003961; FN_III.
DR InterPro; IPR008957; FN_III-like.
DR InterPro; IPR006210; IEGF.
DR InterPro; IPR001611; LRR.
DR InterPro; IPR000483; LRR_Cterm.
DR InterPro; IPR003885; LRR_Cyst.
DR InterPro; IPR000372; LRR_Nterm.
DR InterPro; IPR003591; LRR_typ.
DR Pfam; PF00008; EGF; 1.
DR Pfam; PF00041; fn3; 1.
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DR Pfam; PF01463; LRRCT; 1.
DR Pfam; PF01462; LRRNT; 1.
DR Pfam; PF00560; LRR_1; 9.
DR PRINTS; PRO0019; LEURICRPT.
DR SMART; SM00181; EGF_1.
DR SMART; SM00082; LRRCT; 1.
DR SMART; SM00013; LRRNT; 1.
DR SMART; SM00365; LRR_SD22; 4.
DR SMART; SM00369; LRR_TYP; 8.
DR PROSITE; PS00022; EGF_1; 1.
DR PROSITE; PS01186; EGF_2; 1.
DR PROSITE; PS50026; EGF_3; 1.
DR PROSITE; PS50853; FN3; 1.
KW EGF-like domain.
SQ SEQUENCE 673 AA; 71712 MW; 891E149652DEA286 CRC64;

Query Match 98.2%; Score 3078.5; DB 2; Length 673;
Best Local Similarity 88.6%; Pred. No. 7.9e-164;
Matches 596; Conservative 0; Mismatches 2; Indels 75; Gaps 1;

QY 1 MCSRVPLLLPLLLLLALGFGVQCSPGSCQCSQPTVFCRTARQGTTPRDVPPDVTGLYVF 60
Db 1 MCSRVPLLLPLLLLLALGFGVQCSPGSCQCSQPTVFCRTARQGTTPRDVPPDVTGLYVF 60
QY 61 ENGITWLDASSAGLPGIQLLDLSQNIAS----- 90
Db 61 ENGITWLDAGSAGLPGIQLLDLSQNIASLPSGVFQPLANLSNLDLTANRLHEITNETF 120
QY 91 -----LRLPRLLLLDLSHNS 105
Db 121 RGLRLRLRYLGNRIHITQGAFTLDRLLLEKLDQNELRALPURLPRLLLLDLSHNS 180
QY 106 LLALEPGILDTANVEALRLAGLQLOLDDEGLFSRLNLHDLVDSDNQLERVPVIRGLRG 165
Db 181 LLALEPGILDTANVEALRLAGLQLOLDDEGLFSRLNLHDLVDSDNQLERVPVIRGLRG 240
QY 166 LTRLRAGNTRIAQLRPEDLAGLAALQELDVSNLSQALPGDLGSLFPRLRLLLAAARNPF 225
Db 241 LTRLRAGNTRIAQLRPEDLAGLAALQELDVSNLSQALPGDLGSLFPRLRLLLAAARNPF 300
QY 226 NCVCPLSWFGPWRVRESHVTLASPEETRCHFPKQAGRLLELDYADFGLPATTATVPT 285
Db 301 NCVCPLSWFGPWRVRESHVTLASPEETRCHFPKQAGRLLELDYADFGLPATTATVPT 360
QY 286 TRPVVREPTALSSSLAPTWSLTAPATEAPSPSTAPPTVGPVQDCCPSTCLNGGTC 345
Db 361 TRPVVREPTALSSSLAPTWSLTAPATEAPSPSTAPPTVGPVQDCCPSTCLNGGTC 420
QY 346 HLGTRHHLACLCEGFTGLYCDSOMQGTSPSTPTVTPRPRSLTLGIEPVSPSTLRVGL 405
Db 421 HLGTRHHLACLCEGFTGLYCDSOMQGTSPSTPTVTPRPRSLTLGIEPVSPSTLRVGL 480
QY 406 QRYLOGSSVQLRSRLTYRNLSGPDKRLVTLRLPASLAETVTLQRLPNATYSVCMPLGP 465
Db 481 QRYLOGSSVQLRSRLTYRNLSGPDKRLVTLRLPASLAETVTLQRLPNATYSVCMPLGP 540
QY 466 GRVPEGEACGEAHTPPAVHSNHAPVTOAREGNLPLLIAPALAAVLLAALAAVGAAYCVR 525
Db 541 GRVPEGEACGEAHTPPAVHSNHAPVTOAREGNLPLLIAPALAAVLLAALAAVGAAYCVR 600
QY 526 RGRAMAAAQDKGVGPGAGPLEGKVPLEPGPKATEGGGEALPSGSECEVPLMGFP 585
Db 601 RGRAMAAAQDKGVGPGAGPLEGKVPLEPGPKATEGGGEALPSGSECEVPLMGFP 660
QY 586 PGLQSPHLHAKPYI 598
Db 661 PGLQSPHLHAKPYI 673

RESULT 4
Q96CX1
ID Q96CX1 PRELIMINARY; PRT; 601 AA.
AC Q96CX1;
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DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE LOC114990 protein (Fragment).
GN Name=LOC114990;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Lung;
RX PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Datschenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.P., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Rana S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mulliahy S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Kryzyski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E.,
RA Jones S.J., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Lung;
RA Director MGC Project;
RA Submitted (SEP-2001) to the EMBL/GenBank/DBJ databases.
CC -!- SIMILARITY: Contains 1 EGF-like domain.
DE EMBL; BC013767; AAH13767.1; -.
DR HSSP; Q9BZR6; 1P8T.
DR InterPro; IPR000742; EGF 2.
DR InterPro; IPR006209; EGF_like.
DR InterPro; IPR003961; FN3_I.
DR InterPro; IPR006210; IEGF.
DR InterPro; IPR001611; LRR.
DR InterPro; IPR000483; LRR Cterm.
DR InterPro; IPR003591; LRR typ.
DR Pfam; PF00008; EGF; 1.
DR Pfam; PF00041; fn3; 1.
DR Pfam; IPR01463; LRRCT; 1.
DR Pfam; PF00560; LRR; 9.
DR PRINTS; PR000119; LEURICHRPT.
DR SMART; SM00181; EGF; 1.
DR SMART; SM00060; FN3; 1.
DR SMART; SM00082; LRRCT; 1.
DR SMART; SM00369; LRR typ; 2.
DR PROSITE; PS00022; EGF 1; 1.
DR PROSITE; PS01186; EGF 2; 1.
DR PROSITE; PS00026; EGF_3; 1.
DR PROSITE; PS00853; FN3; 1.
KW EGF-like domain.
FT NON TER 1
SQ SEQUENCE 601 AA; 64178 MW; 496407F778D9ADB2 CRC64;
Query Match 86.0%; Score 2697.5; DB 2; Length 601;
Best Local Similarity 87.4%; Pred. No. 1.3e-142;
Matches 525; Conservative 0; Mismatches 1; Indels 75; Gaps 1;
Qy 73 AGLPGLQLDLDSQNIAS----- 90
Db 1 AGLPGLQLDLDSQNIASLPGVQFPLANSLDLTANRLHETITNTPFGLRLRLRYLG 60
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Qy 91 -----LRLPRLLLDLSHNSLLALEPGLDTA 117
Db 61 KNIRHITQGAFTLDRLLLEKLODNEIRALPPURLPRLLLDLUSHNSLLALEPGLDTA 120
Qy 118 NVEALRLAGLQQLDEGLFSRLRNLDVSDNQLERVPVIRGLRGLTRLRLAGNTRI 177
Db 121 NVEALRLAGLQQLDEGLFSRLRNLDVSDNQLERVPVIRGLRGLTRLRLAGNTRI 180
Qy 178 AQLRPEDLAGLAALQELDVNSLSQALPGDLISGLFPRLLRLAAARNPNCVPLSWFGPW 237
Db 181 AQLRPEDLAGLAALQELDVNSLSQALPGDLISGLFPRLLRLAAARNPNCVPLSWFGPW 240
Qy 238 VRESHVTLASPEETRCRCHFPKKNAGRLLELDYADFGCPATTTTATVPTTRPVVREPTALS 297
Db 241 VRESHVTLASPEETRCRCHFPKKNAGRLLELDYADFGCPATTTTATVPTTRPVVREPTALS 300
Qy 298 SSLAPTWLSPTAPATEAPSPPTAPPTVGPVPQDQCPPTCLNGGTCGLGTRHHLACL 357
Db 301 SSLAPTWLSPTAPATEAPSPPTAPPTVGPVPQDQCPPTCLNGGTCGLGTRHHLACL 360
Qy 358 PEGTGLYCSQMGQGRPSPTPTVTPRPSRLTIGIEPVSPSTSLRVGLQRYLQSSVOLR 417
Db 361 PEGTGLYCSQMGQGRPSPTPTVTPRPSRLTIGIEPVSPSTSLRVGLQRYLQSSVOLR 420
Qy 418 SLRLTYNLSGPKRLVTLRLPASLAETVTLRLPNATYSVCVMPLGPRVPEGEACGE 477
Db 421 SLRLTYNLSGPKRLVTLRLPASLAETVTLRLPNATYSVCVMPLGPRVPEGEACGE 480
Qy 478 AHTPPAVHSHNAPVTOAREGNLPLLIAPALAAVLLAALAAVGAAYCVRGRGRAMAAADK 537
Db 481 AHTPPAVHSHNAPVTOAREGNLPLLIAPALAAVLLAALAAVGAAYCVRGRGRAMAAADK 540
Qy 538 GQVGPAGGLEGVKVPLEFGPKATGGEGEALPSGSECEVPLMGFPQGLQSPHAKPY 597
Db 541 GQVGPAGGLEGVKVPLEFGPKATGGEGEALPSGSECEVPLMGFPQGLQSPHAKPY 600
Qy 598 I 598
Db 601 I 601
RESULT 5
Q8BJU0 PRELIMINARY; PRT; 673 AA.
ID Q8BJU0
AC Q8BJU0;
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mus musculus 9 days embryo whole body cDNA, RIKEN full-length enriched
DE library, clone:D030066D07 product:hypothetical Prokaryotic membrane
DE lipoprotein lipid attachment site/Cysteine-rich flanking region, N-
DE terminal/Leucine-rich repeat/EGF-like domain/Leucine-rich repeat, N-
DE typical subtype/Leucine-rich repeat, outliers/Cysteine-rich flanking
DE region, C-terminal/Leucine-rich region/Fibronectin type III domain
DE containing protein, full insert sequence.
GN Name=Slit12;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Whole body;
RX MEDLINE=99279253; PubMed=10349636; DOI=10.1016/S0076-6879(99)03004-9;
RA Carninci P., Hayashizaki Y.;
RT "High-efficiency full-length cDNA cloning.";
RL Meth. Enzymol. 303:19-44(1999).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Whole body;
RX MEDLINE=21085660; PubMed=11217851; DOI=10.1038/35055500;
RA RIKEN FANTOM Consortium;
RT "Functional annotation of a full-length mouse cDNA collection.";
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RX MEDLINE=21085660; PubMed=11217851; DOI=10.1038/35055500;  
 RA RIKEN FANTOM Consortium;  
 RT "Functional annotation of a full-length mouse cDNA collection.";  
 RL Nature 409:685-690 (2001).  
 RN [3]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=C57BL/6J; TISSUE=Whole body;  
 RA The FANTOM Consortium,  
 RT "Analysis of the mouse transcriptome based on functional annotation of  
 60,770 full-length cDNAs.";  
 RL Nature 420:563-573 (2002).  
 RN [4]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=C57BL/6J; TISSUE=Whole body;  
 RX MEDLINE=20499374; PubMed=11042159; DOI=10.1101/gr.145100;  
 RA Carninci P., Shibata Y., Hayatsu N., Sugahara Y., Shibata K., Itoh M.,  
 RA Konno H., Okazaki Y., Muramatsu M., Hayashizaki Y.,  
 RT "Normalization and subtraction of cap-trapper-selected cDNAs to  
 prepare full-length cDNA libraries for rapid discovery of new genes.";  
 RL Genome Res. 10:1617-1630 (2000).  
 RN [5]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=C57BL/6J; TISSUE=Whole body;  
 RX MEDLINE=20330913; PubMed=11076861; DOI=10.1101/gr.152600;  
 RA Shibata K., Itoh M., Aizawa K., Nagaoka S., Sasaki N., Carninci P.,  
 RA Konno H., Akiyama J., Nishi K., Kitsuina T., Tashiro H., Itoh M.,  
 RA Sumi N., Ishii Y., Nakamura S., Hazama M., Nishimura T., Harada A.,  
 RA Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K.,  
 RA Fujiwara S., Inoue K., Togawa Y., Izawa M., Ohara E., Watahiki M.,  
 RA Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsura S., Kawai J.,  
 RA Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;  
 RT "RIKEN integrated sequence analysis (RISA) system-384-format  
 sequencing pipeline with 384 multicapillary sequencer.";  
 RL Genome Res. 10:1757-1771 (2000).  
 RN [6]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=C57BL/6J; TISSUE=Whole body;  
 RA Adachi J., Aizawa K., Akahira S., Akimura T., Arai A., Aono H.,  
 RA Hanagaki T., Bono H., Carninci P., Fukuda S., Fukunishi Y., Furuno M.,  
 RA Imocani K., Ishii Y., Itoh M., Izawa M., Kasukawa T., Kato H.,  
 RA Kawai J., Kojima Y., Konno H., Kouda M., Koya S., Kurihara C.,  
 RA Matsuyama T., Miyazaki A., Nishi K., Nomura K., Numazaki R., Ohno M.,  
 RA Okazaki Y., Okido T., Owa C., Saito H., Saito R., Sakai C., Sakai K.,  
 RA Sano H., Sasaki D., Shibata K., Shibata Y., Shinagawa A., Shiraki T.,  
 RA Sogabe Y., Suzuki H., Tagami M., Tagawa A., Takahashi F., Tanaka T.,  
 RA Tejima Y., Toya T., Yamamuro T., Yasunishi A., Yoshida K., Yoshino M.,  
 RA Muramatsu M., Hayashizaki Y.;  
 RT Submitted (JUL-2000) to the EMBL/GenBank/DBJ databases.  
 CC -!- SIMILARITY: Contains 1 EGF-like domain.  
 DR EMBL: AK012169; BAB28075.1; -.  
 DR HSSP: P00740; IEDM.  
 DR MGD: MGI:2177651; Slit1l2.  
 DR InterPro: IPR000742; EGF\_2.  
 DR InterPro: IPR006209; EGF-like.  
 DR InterPro: IPR003961; FN\_III.  
 DR InterPro: IPR006210; IEGF.  
 DR InterPro: IPR001611; LRR.  
 DR InterPro: IPR000483; LRR\_Cterm.  
 DR InterPro: IPR000372; LRR\_Nterm.  
 DR InterPro: IPR003591; LRR\_typ.  
 DR Pfam: PF00008; EGF\_1.  
 DR Pfam: PF00041; fn3\_1.  
 DR Pfam: PF01463; LRRCT; 1.  
 DR Pfam: PF01462; LRRNT; 1.  
 DR Pfam: PF00560; LRR\_1; 8.  
 DR PRINTS: PR00019; LEURICHRPT.  
 DR SMART: SM00181; EGF; 1.  
 DR SMART: SM00060; FN3; 1.  
 DR SMART: SM00082; LRRCT; 1.  
 DR SMART: SM00013; LRRNT; 1.  
 DR SMART: SM00369; LRR\_TYP; 3.

DR PROSITE; PS00022; EGF\_1; UNKNOWN\_1.  
 DR PROSITE; PS01186; EGF\_2; 1.  
 DR PROSITE; PS00026; EGF\_3; 1.  
 DR PROSITE; PS00853; FN3; 1.  
 KW EGF-like domain: Hypothetical protein: Lipoprotein.  
 SQ SEQUENCE 673 AA; 72336 MW; 9C53F90ADF43FBD9 CRC64;  
  
 Query Match 79.2%; Score 2484; DB 2; Length 673;  
 Best Local Similarity 73.4%; Pred. No. 1.2e-130;  
 Matches 490; Conservative 25; Mismatches 75; Indels 78; Gaps 3;  
  
 QY 6 P L L L L L L L L A L G P G V G C P S G C O C S O P T V F C T A R Q G T V P R D V P D T V G L Y V F E N G I T 65  
 DB 9 P L L - - L L L L L G S G V G C P S G C C Q N Q P T V F C T A R Q G T V P R D V P D T V G L Y F I F E N G I T 66  
  
 QY 66 M I D A S S F A G L P G I Q L D L D L S Q N O I A S - - - - - 90  
 DB 67 T I D V G C F A G L P G I Q L D L D L S Q N Q I T S L P G G I F Q P L V N L S N L D I T A N K L H E I S N E T F R G L R R 126  
  
 QY 91 - - - - - 110  
 DB 127 L E R L Y L G K N R I R H I Q P G A F D A L D R L L E L K L P D N E L R V L P P L H L P R L L L D L S H N S I P A L E 186  
  
 QY 111 P G I L D T A N V E A L R L A G L G L Q O L D E G L F S R L N L H D L D V S D N Q L E R V P P V I R G L R G L T R L R 170  
 DB 187 A G I L D T A N V E A L R L A G L G L R Q L D E G L F G R L L M L H D L D V D N Q L E H P M S V I Q G L R G L T R L R 246  
  
 QY 171 L A G N T R I A Q L R P E D I A G L A L O C L D V S N L S L Q A L P G D L S G L P P R L R L L A A A R N P F N C V C P 230  
 DB 247 L A G N T R I A Q I R E D I A G L T A L Q E L D V S N L S L Q A L P S D L S L F P R L R L L A A A R N P F N C L C P 306  
  
 QY 231 L S W F G P W R E S H V T L A S P E T R C H F P P K N A G R L L L E L D Y A D F C G P A T T T T A T V P T R P V V 290  
 DB 307 L S W F G P W R E N H V L A S P E T R C H F P P K N A G R L L L D Y A D F C G P V T T T T A T V P T I R S T I 366  
  
 QY 291 R E P T A L S S L A P T W L S P T A P A T E A R S P P T A P T V G P V P Q P O C P P S T C L I N G S T C H L G T R 350  
 DB 367 R E P T L S T S Q A P T W P S L T E P T T Q A S T V L S T A P T W R P A P O Q P O C P A S I C L I N G S C R L G A R 426  
  
 QY 351 H H L A C L C P G F T G L Y C E S O M G O T R P S P T P V P R P R S L T L G I E P V S P S L R V G L Q R Y L Q 410  
 DB 427 H H W E L C P G F T G L Y C E S P V E G M K P S S I P D T P R P P L L P L S I E P V S P S L R V K L Q R Y L Q 486  
  
 QY 411 G S S V Q L R L R L T Y R N L S G P D K E L V T L R L P A S L A E Y T V T Q L R P N A T Y S V C V M P L G P G R V P E 470  
 DB 487 G N T V Q L R L R L T Y R N L S G P D K E L V T L R L P A S L A E Y T V T Q L R P N A T Y S I C V T P L G A G R T P E 546  
  
 QY 471 G S E A C G E A H T P P A V N S H A P V T Q A R E G N L P L L I A P A L A A V L L A A A V G A A Y C V R R G R A M 530  
 DB 547 G S E A C G E A N T S Q A V R S N H A P V T Q A R E G N L P L L I A P A L A A V L L A A A A G A A Y C V R R A R A - 605  
  
 QY 531 A A A A O D K G V G P G A G P L E G V K V P L E P G K A T E G G E A L P S G S E C E V P L M G P P G L Q S 590  
 DB 606 T S T A Q D K G V G P T G T P L E G V K A P L E G V K A T E G G E A L S G G P E C E V P L M G P P G S L Q G 665  
  
 QY 591 P L H A K P Y I 598  
 DB 666 V L P A K H Y I 673  
  
 RESULT 8  
 Q6DF55 PRELIMINARY; PRT; 661 AA.  
 AC Q6DF55;  
 DT 25-OCT-2004 (TReMBLrel. 28, Created)  
 DT 25-OCT-2004 (TReMBLrel. 28, Last sequence update)  
 DT 25-OCT-2004 (TReMBLrel. 28, Last annotation update)  
 DE MGC88956 protein.  
 GN Name=MGC88956;  
 OS Xenopus tropicalis (Western clawed frog) (Silurana tropicalis).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidae;  
 OC Xenopodinae; Xenopus.

OX NCBI\_TaxID=8364;  
RN [1]  
RP SEQUENCE FROM N.A.  
RC TISSUE=whole body;  
RX PubMed=12477932; DOI=10.1073/pnas.242603899;  
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,  
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,  
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,  
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,  
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,  
RA Brownstein M.J., Udén T.B., Toshiyuki S., Carninci P., Prange C.,  
RA Raba S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,  
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,  
RA Villalón D.K., Muzny K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,  
RA Fahey J., Helton E., Kettman M., Madan A., Rodrigues S., Sanchez A.,  
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,  
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,  
RA Krzywinski M.I., Skalska U., Smallos D.E., Schnerch A., Schein J.E.,  
RA Jones S.J., Marra M.A.;  
RT "Generation and initial analysis of more than 15,000 full-length human  
RT and mouse cDNA sequences.";  
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).  
RN [2]  
RP SEQUENCE FROM N.A.  
RC TISSUE=whole body;  
RL Klein S., Gerhard D.S.;  
RL Submitted (JUL-2004) to the EMBL/GenBank/DBJ databases.  
CC -!- SIMILARITY: Contains 1 EGF-like domain.  
DR EMBL; BC076888; AAH76888.1; -- lec\_gl.  
DR InterPro; IPR008985; ConA\_like\_lec\_gl.  
DR InterPro; IPR000742; EGF 2.  
DR InterPro; IPR006209; EGF like.  
DR InterPro; IPR006210; IEGF.  
DR InterPro; IPR001611; LRR.  
DR InterPro; IPR000483; LRR\_Cterm.  
DR InterPro; IPR003885; LRR\_cyst.  
DR InterPro; IPR003591; LRR\_typ.  
DR Pfam; PF01463; LRRCT; 1.  
DR Pfam; PF00008; EGF; 1.  
DR Pfam; PF00560; LRR; 1; 9.  
DR PRINTS; PRK00019; LEURICHRPT.  
DR SMART; SM00181; EGF; 1.  
DR SMART; SM00082; LRRCT; 1.  
DR SMART; SM00365; LRR\_SD22; 4.  
DR SMART; SM00369; LRR\_TYP; 6.  
DR PROSITE; PS00022; EGF\_1; UNKNOWN\_1.  
DR PROSITE; PS01186; EGF\_2; 1.  
DR PROSITE; PS00026; EGF\_3; 1.  
KW EGF-like domain.  
SQ SEQUENCE 661 AA; 71957 MW; A0AC47946BE8DBEA CRC64;

Query Match 38.7%; Score 1213.5; DB 2; Length 661;  
Best Local Similarity 41.3%; Pred. No. 8.8e-60;  
Matches 282; Conservative 88; Mismatches 158; Indels 155; Gaps 20;

Qy 8 LLPLLLLALPGV--QCPCSCGCSQPOTVCTARQCTVPRDVPPTVGLYVPENGIT 65  
Db 4 LLVWILLATQAQMITECPAGCQNTQTQVCLARKNSNFRSPVPTLNLVYFENGIS 63  
Qy 66 MLDASSFAGLPGLQLDLSQNIASL-----RLPELLLDLSHNSLLALE 110  
Db 64 SIIESSFTGLNGLHLLDLSHNSQLSPGPFNLANLSNLDLTSNQLTEISADTFQGLSR 123  
Qy 92 -----RLPELLLDLSHNSLLALE 110  
Db 124 LERLYLNGNRIRSIHPEAFKIGIESLLELKLNNQLVTPPASLPHLLLDLSYNAIPVQ 183  
Qy 111 PGILDTANVEALRLAGLQQLDEGLFSLRLNLDLSDNQLERVPVIRGLRLRLR 170  
Db 184 QGVFNAGNIESRLAGLGLKEVPPELLSLGLNKLHLDLSLDNQDKVPP--GLHGLTKLN 240

Qy 171 LAGNTRIAQLRPEDLAGLAALQELDVSNLSLOALPGDLSGLFPRLRLLAARNPNCVCP 230  
Db 241 IAGNVFSGTQVDDLSNLPALQELDLGLSLQTLPLKGLFRSSKKLRAVSLAQNPENCVCY 300  
Qy 231 LSWFGPVRSHVTLASPEETRCRCHFPKNAAGRLLELDYADFGCPATTTATVPTTRPV 290  
Db 301 LGWLESMRVSGVLLRPDETRCHFPKNAAGTKLRQLRDSEYGCFA-PTTIQMPSTMP- 358  
Qy 291 REPTALSSSLAPTWSLPTAP---ATEAPSPSTAPPTVGPVPQPD-----CP 335  
Db 359 -----STTTGP-----PTTKHLQTEAPTASTTTTIPHQEQEBEDTQPFQDFEDTLCP 408  
Qy 336 PSTCLNGTCHLGRHHLACLPSPGFTGLICESQMGQTRSPPTVTRPPRSL---TLG 392  
Db 409 PQTCLNGSGCHLDPTGQLECECPFGQTYCET-----GEVTVAVVTMEYIOVK 458  
Qy 393 IEPVPSLRLVGLQRYLQSSVOLRSLRLTVRNLSGDPKRLVTLRLPASLAETVTLQRP 452  
Db 459 IIEVTVSIRVDLQSYQNKKE-KLRAIRLTVRNLYGADRRPMIYKLPPTLEPTVRLSS 517  
Qy 453 NATYSVCVMPPLGPGRVPEGEACGEAHT---PPAVHSNHAP-VTQAREGNLPLLIAPALA 508  
Db 518 NSSYVWCLGSGQEGG-PE-EDLCETHTLGEPP----KHSQVVTQSQSGNLTLLVLPVA 571  
Qy 509 AVLLAALAAVGAAYCVRGRAMAAAQDKGVGAGGPLEGKVPLEPGPKATEGGGE 568  
Db 572 AGILLS-AAVAAAACYARRR-----KKGHSVEDGGPLEMDGVK-----KGLDGKE 617  
Qy 569 AL-----PSGSECEVPLM 581  
Db 618 VKLSEDPGTGPKTGAESEPEPLM 640

RESULT 9  
O6PJG9 PRELIMINARY; PRT; 635 AA.  
AC O6PJG9;  
DT 05-JUL-2004 (TrEMBLrel. 27, Created)  
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)  
DE 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)  
DE Leucine rich repeat and fibronectin type III domain containing 4.  
GN Name=LRFN4;  
OS Homo sapiens (Human).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
OC NCBI\_TaxID=9606;  
RN [1]  
RP SEQUENCE FROM N.A.  
RC TISSUE=Lung;  
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;  
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,  
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,  
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,  
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,  
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,  
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,  
RA Brownstein M.J., Udén T.B., Toshiyuki S., Carninci P., Prange C.,  
RA Raba S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,  
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,  
RA Villalón D.K., Muzny K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,  
RA Fahey J., Helton E., Kettman M., Madan A., Rodrigues S., Sanchez A.,  
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,  
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,  
RA Krzywinski M.I., Skalska U., Smallos D.E., Schnerch A., Schein J.E.,  
RA Jones S.J., Marra M.A.;  
RT "Generation and initial analysis of more than 15,000 full-length human  
RT and mouse cDNA sequences.";  
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).  
RN [2]  
RP SEQUENCE FROM N.A.



## RESULT 10

Db 181 -IDALPGCVFAQLSRLDLTSNRLATLAPD--PLFSRGRDAEASPSPLVLSFGNPLH 237  
Qy 227 CVCPLSWFGPVRVSHVTLASPEETR-CHFPKNAAGRLLLLELDYADFCCPATTITATVPT 285  
Db 238 CNECELLMLR-----RLARPDDLETCASTPTLAGRYFWAVPEGEFSC----- 278  
Qy 286 TRPVVREPTALSSSLAPTWLSPTAPAT---EAPSPPTAPPTVGVPOPOD----- 333  
Db 279 -----EPPLIARHTQRLVLEGGQATLRCALGDVPVTMHWG-----PDDRVLVGNSSRA 328  
Qy 334 -CPSTCLNGGTCHLGRHHLACL-PEGFTGLYCESQM-----CQGTTPSPPT 380  
Db 329 WAFPNGTLEIGVTGAGDAGATYCIATNPAGEATARVELRVLALPHGGNTSAEGGRPGPSD 388  
Qy 381 VTPRPPRSL-----TLGIETP---VSPTSRLVGLQRYLOGSSVQ-LRSLRLTVRNLSGPKR 432  
Db 389 IAASARTAAEGEGTLESEPAVQVTEVTATSGLVSWGLGRPADPVMWFIQYN--SSEDET 446  
Qy 433 LVTLRLPASLAETVTVTLQRPNATYSVCVMPGLGPRVPEGEA-----CGEAHTPPAVHSN 487  
Db 447 LIYRIVPASSHHFLKHLVPGADYDLCULALSPAAGPSDLTATRLGCAHFSTLPANPLC 506  
Qy 488 HAPVTOAREGNLPLLIAPALAVALAALAAVGAAYCVRGRAMAAAQDKGVGFGAGPL 547  
Db 507 HALQAHVLGGTLTV---AVGGLVAALLVFTVALLV-RGRG-----AGNRLPL 551  
Qy 548 ELEGVKVPLEGPKATGEGGALP 571  
Db 552 KLSHVQ-----SQTNGGTSPMP 568

## RESULT 11

Q8K3C4 PRELIMINARY; PRT; 636 AA.  
AC Q8K3C4;  
DT 01-OCT-2002 (TReMBLrel. 22, Created)  
DT 01-OCT-2002 (TReMBLrel. 22, Last sequence update)  
DT 01-MAR-2004 (TReMBLrel. 26, Last annotation update)  
DE Lrfn4 protein.  
GN Name=lrfn4;  
OS Mus musculus (Mouse).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
OX NCBI\_TaxID=10090;  
RN [1]  
RP SEQUENCE FROM N.A.  
RC STRAIN=FVB/N; TISSUE=Mammary tumor. C3;  
RX MEDLINE=22389257; PubMed=12477932; DOI=10.1073/pnas.242603899;  
RA Straubeberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,  
RA Klausner R.D., Collins F.S., Wagner L., Shennen C.M., Schuler G.D.,  
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,  
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,  
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,  
RA Stapleton M., Soares M.B., Bonaldi M.F., Casavant T.L., Scheetz T.E.,  
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,  
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,  
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,  
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,  
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,  
RA Fahey J., Helton E., Kettman M., Madan A., Rodrigues S., Sanchez A.,  
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,  
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,  
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.W., Butterfield Y.S.,  
RA Krzyzanski M.I., Skalska U., Smalusi D.E., Schnerch A., Schein J.E.,  
RA Jones S.J., Marra M.A.;  
RT "Generation and initial analysis of more than 15,000 full-length human  
RT and mouse cDNA sequences."  
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).  
RN [2]  
RP SEQUENCE FROM N.A.  
RC STRAIN=FVB/N; TISSUE=Mammary tumor. C3;  
RA Straubeberg R.;  
RL Submitted (FEB-2002) to the EMBL/GenBank/DBJ databases.

DR EMBL; BC023156; AAH23156.1; -.  
DR HSSP; O9BZR6; 1P8T.  
DR MGD; MGI:2385612; lrfn4.  
DR InterPro; IPR003961; FN III.  
DR InterPro; IPR007110; Ig-like.  
DR InterPro; IPR003598; Ig C2.  
DR InterPro; IPR001611; LRR.  
DR InterPro; IPR000483; LRR\_Cterm.  
DR InterPro; IPR000372; LRR\_Nterm.  
DR InterPro; IPR003591; LRR\_Typ.  
DR Pfam; PF00041; fn3; 1.  
DR Pfam; PF00560; LRR 1; 6.  
DR PRINTS; PR00019; LEURICHRPT.  
DR SMART; SM00060; FN3; 1.  
DR SMART; SM00408; IGC2; 1.  
DR SMART; SM00082; LRRCT; 1.  
DR SMART; SM00013; LRRNT; 1.  
DR SMART; SM00369; LRR\_TVP; 2.  
DR PROSITE; PS50853; FN3; 1.  
DR PROSITE; PS50835; IG LIKE; 1.  
SQ SEQUENCE 636 AA; 67264 MW; 9CE86E8A3981A884 CRC64;

## Query Match 11.1%; Score 348; DB 2; Length 636;

Best Local Similarity 27.2%; Pred. No. 1.7e-11;

Matches 170; Conservative 62; Mismatches 276; Indels 116; Gaps 25;

Qy 8 LPLLLLLALPGVGQCPSCQC---SQQTVFTCTARQGTTPRDPDPTVGLVFNGL 64  
Db 1 MAPPLLLLLASGAACPLPCVCQNLSESLTLCARHGLLFVFPVNDRTVELRADNFI 60  
Qy 65 TMLDASSFAGLPGQLDLDSQNIASL-----RLPRLLLDLSHNSLLAL-EPGLDTA 117  
Db 61 QALGPPDFRNTGLVDTLNRNATIRIGARSFGDLSRLSHLDCNRLVELGSSSLRGPV 120  
Qy 118 NVEALRIAGLQQLDREGLFSR-LRNLHLDVSDNQLERVP-PVIRGLRGHTRLRAGNT 175  
Db 121 NLQHLILSGNQLGRIAPGAFDDFLDSLELDVSNLNRQVFWAGISMPALHTLNDHL 180  
Qy 176 RIAQLRPEDLAGLAALQELDVNSLQALPGDLSGLFPRLR-----LLAARNPFN 226  
Db 181 -IDALPGCVFAQLSRLDLTSNRLATLAPD--PLFSRGRDAEASPSPLVLSFGNPLH 237  
Qy 227 CVCPLSWFGPVRVSHVTLASPEETR-CHFPKNAAGRLLLLELDYADFCCPATTITATVPT 285  
Db 238 CNECELLMLR-----RLARPDDLETCASTPTLAGRYFWAVPEGEFSC----- 278  
Qy 286 TRPVVREPTALSSSLAPTWLSPTAPAT---EAPSPPTAPPTVGVPOPOD----- 333  
Db 279 -----EPPLIARHTQRLVLEGGQATLRCALGDVPVTMHWG-----PDDRVLVGNSSRA 328  
Qy 334 -CPSTCLNGGTCHLGRHHLACL-PEGFTGLYCESQM-----CQGTTPSPPT 380  
Db 329 WAFPNGTLEIGVTGAGDAGATYCIATNPAGEATARVELRVLALPHGGNTSAEGGRPGPSD 388  
Qy 381 VTPRPPRSL-----TLGIETP---VSPTSRLVGLQRYLOGSSVQ-LRSLRLTVRNLSGPKR 432  
Db 389 IAASARTAAEGEGTLESEPAVQVTEVTATSGLVSWGLGRPADPVMWFIQYN--SSEDET 446  
Qy 433 LVTLRLPASLAETVTVTLQRPNATYSVCVMPGLGPRVPEGEA-----CGEAHTPPAVHSN 487  
Db 447 LIYRIVPASSHHFLKHLVPGADYDLCULALSPAAGPSDLTATRLGCAHFSTLPANPLC 506  
Qy 488 HAPVTOAREGNLPLLIAPALAVALAALAAVGAAYCVRGRAMAAAQDKGVGFGAGPL 547  
Db 507 HALQAHVLGGTLTV---AVGGLVAALLVFTVALLV-RGRG-----AGNRLPL 551  
Qy 548 ELEGVKVPLEGPKATGEGGALP 571  
Db 552 KLSHVQ-----SQTNGGTSPMP 568

## RESULT 12

Q8BLIU0



Db 493 LVPLDAFNRYTVEDTICSEATTTHASYLNGNSNTASSHEQTTHSHMGS-PFLLAGLIGGAV 551  
 Qy 512 LAALAAGAAVC---VRRGR 528  
 Db : : : : :  
 552 IFVLVLLSVFCWHEMKGR 571  
 RESULT 13  
 Q8BHA1 PRELIMINARY; PRT; 521 AA.  
 ID Q8BHA1  
 AC Q8BHA1;  
 DT 01-MAR-2003 (TREMELrel. 23, Created)  
 DT 01-MAR-2003 (TREMELrel. 23, Last sequence update)  
 DT 25-OCT-2004 (TREMELrel. 28, Last annotation update)  
 DE Mus musculus 0 day neonate cerebellum cDNA, RIKEN full-length enriched  
 DE library, clone:C23002N12 product:hypothetical Zinc carboxypeptidases,  
 DE carboxypeptidase A metalloprotease (M14) family containing protein,  
 DE full insert sequence (Mus musculus adult male olfactory brain cDNA,  
 DE RIKEN full-length enriched library, clone:6430402H13  
 DE product:hypothetical Zinc carboxypeptidases, carboxypeptidase A  
 DE metalloprotease (M14) family containing protein, full insert  
 DE sequence).  
 GN Name=EI30306101Rik;  
 OS Mus musculus (Mouse).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 ON NCBI\_TaxID=10090;  
 [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=C57BL/6J; TISSUE=Cerebellum, and Olfactory brain;  
 RX MEDLINE=99279253; PubMed=10349636; DOI=10.1016/S0076-6879(99)03004-9;  
 RA Carninci P., Hayashizaki Y.;  
 RT "High-efficiency full-length cDNA cloning.";  
 RL Mech. Enzymol. 303:19-44 (1999).  
 [2]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=C57BL/6J; TISSUE=Cerebellum, and Olfactory brain;  
 RX MEDLINE=21085660; PubMed=11217851; DOI=10.1038/35055500;  
 RA RIKEN FANTOM Consortium;  
 RT "Functional annotation of a full-length mouse cDNA collection.";  
 RL Nature 409:685-690 (2001).  
 [3]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=C57BL/6J; TISSUE=Cerebellum, and Olfactory brain;  
 RA The FANTOM Consortium,  
 RT the RIKEN Genome Exploration Research Group Phase I & II Team;  
 RL "Analysis of the mouse transcriptome based on functional annotation of  
 60,770 full-length cDNAs.";  
 RL Nature 420:563-573 (2002).  
 [4]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=C57BL/6J; TISSUE=Cerebellum, and Olfactory brain;  
 RX MEDLINE=20499374; PubMed=11042159; DOI=10.1101/gr.145100;  
 RA Carninci P., Shibata Y., Hayatsu N., Sugahara Y., Shibata K., Itoh M.,  
 RA Konno H., Okazaki Y., Muramatsu M., Hayashizaki Y.;  
 RT "Normalization and subtraction of cap-trapper-selected cDNAs to  
 RT prepare full-length cDNA libraries for rapid discovery of new genes.";  
 RL Genome Res. 10:1617-1630 (2000).  
 [5]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=C57BL/6J; TISSUE=Cerebellum, and Olfactory brain;  
 RX MEDLINE=20530913; PubMed=11076861; DOI=10.1101/gr.152600;  
 RA Shibata K., Itoh M., Aizawa K., Nagao K., Nagao S., Sasaki N., Carninci P.,  
 RA Konno H., Akiyama J., Nishi K., Kitsuunai T., Tashiro H., Itoh M.,  
 RA Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A.,  
 RA Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K.,  
 RA Fujiwaka S., Inoue K., Togawa Y., Izawa M., Ohara E., Watahiki M.,  
 RA Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsura S., Kawai J.,  
 RA Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;  
 RT "RIKEN integrated sequence analysis (RISA) system-384-format  
 RT sequencing pipeline with 384 multicapillary sequencer.";  
 RL Genome Res. 10:1757-1771 (2000).  
 [6]

RP SEQUENCE FROM N.A.  
 RC STRAIN=C57BL/6J; TISSUE=Cerebellum;  
 RA Adachi J., Aizawa K., Akimura T., Arakawa T., Bono H., Carninci P.,  
 RA Fukuda S., Furuno M., Hanagaki T., Hara A., Hashizume W.,  
 RA Hayashida K., Hayatsu N., Hiramoto K., Hiraoka T., Hirozane T.,  
 RA Hori F., Imotani K., Ishii Y., Itoh M., Kagawa I., Kasukawa T.,  
 RA Katoh H., Kawai J., Kojima Y., Kondo S., Konno H., Kouda M., Koya S.,  
 RA Kurihara C., Matsuyama T., Miyazaki A., Murata M., Nakamura M.,  
 RA Nishi K., Nomura K., Numazaki R., Ohno M., Ohsato N., Okazaki Y.,  
 RA Saito R., Saitoh H., Sakai C., Sakai K., Sakazume N., Sano H.,  
 RA Sasaki D., Shibata K., Shinagawa A., Shiraki T., Sogabe Y., Tagami M.,  
 RA Tagawa A., Takahashi F., Takaku-Akaira S., Takeda Y., Tanaka T.,  
 RA Tomaru A., Toya T., Yasunishi A., Muramatsu M., Hayashizaki Y.;  
 RL Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.  
 [7]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=C57BL/6J; TISSUE=Olfactory brain;  
 RA Adachi J., Aizawa K., Akimura T., Arakawa T., Bono H., Hashizume W.,  
 RA Fukuda S., Furuno M., Hanagaki T., Hara A., Hashizume W.,  
 RA Hayashida K., Hayatsu N., Hiramoto K., Hiraoka T., Hirozane T.,  
 RA Hori F., Imotani K., Ishii Y., Itoh M., Kagawa I., Kasukawa T.,  
 RA Katoh H., Kawai J., Kojima Y., Kondo S., Konno H., Kouda M., Koya S.,  
 RA Kurihara C., Matsuyama T., Miyazaki A., Murata M., Nakamura M.,  
 RA Nishi K., Nomura K., Numazaki R., Ohno M., Ohsato N., Okazaki Y.,  
 RA Saito R., Saitoh H., Sakai C., Sakai K., Sakazume N., Sano H.,  
 RA Sasaki D., Shibata K., Shinagawa A., Shiraki T., Sogabe Y., Tagami M.,  
 RA Tagawa A., Takahashi F., Takaku-Akaira S., Takeda Y., Tanaka T.,  
 RA Tomaru A., Toya T., Yasunishi A., Muramatsu M., Hayashizaki Y.;  
 RL Submitted (APR-2002) to the EMBL/GenBank/DBJ databases.  
 DR EMBL; AK048678; BAC33419.1; -;  
 DR EMBL; AK078176; BAC37163.1; -;  
 DR HSP; Q9BZR6; 10ZN;  
 DR MGD; MGI:2445060; EI30306101Rik.  
 DR GO; GO:0004180; F:carboxypeptidase activity; IEA.  
 DR GO; GO:0008237; F:metallopeptidase activity; IEA.  
 DR InterPro; IPR007110; Iq-like.  
 DR InterPro; IPR003598; Iq C2.  
 DR InterPro; IPR001611; LRR.  
 DR InterPro; IPR000483; LRR\_Cterm.  
 DR InterPro; IPR000372; LRR\_Nterm.  
 DR InterPro; IPR003591; LRR\_typ.  
 DR Pfam; PF01463; LRRCT; 1.  
 DR Pfam; PF00560; LRR.1; 6.  
 DR PRINTS; PR00019; LEURICRPT.  
 DR SMART; SM00408; IGC2; 1.  
 DR SMART; SM00082; LRRCT; 1.  
 DR SMART; SM00013; LRRNT; 1.  
 DR SMART; SM00369; LRR\_TYP; 3.  
 DR PROSITE; PS50835; IQ\_LIKE; 1.  
 KW Carboxypeptidase; Hypothetical protein; Metalloprotease; Protease.  
 SQ SEQUENCE 521 AA; 56334 MW; 3DIE4BEE302284A6 CRC64;  
 Query Match 10.8%; Score 339; DB 2; Length 521;  
 Best Local Similarity 27.0%; Pred. No. 4.3e-11;  
 Matches 149; Conservative 66; Mismatches 217; Indels 120; Gaps 21;  
 Qy 1 MCSRVPLLLPL---LILLALGPV---QGCPCQCQCQPOTVCTARQGTTPVRDVPDP 53  
 Db 1 MALRAPTLILLLLGLLLPLPLPGLPPRATGCPAACRC-YSATVECGALRLRVPPGIPP 59  
 Qy 54 TVGLYVFEENGITMLDASSFAGLPGQLLDLSQNIASLR-----LPRLLDLSHNSLL 107  
 Db 60 TQTFLFQDNSTAHLEQCSLAPLAALRHLYLHNNTLRALSCAFRAQPLLELALUTGNRLR 119  
 Qy 108 ALEPG-IILDTANVEALRAGLGLQQLDEGLFSRLRNHLDLVDNQLRVPVIRGLRGL 166  
 Db 120 GLRGCAFVGLVQLRVLYLAGNQLAKLLDFTLHLRLQLHLQENSIE----- 167  
 Qy 167 TRRLAGNTRIAQRPEDLAGLAALQELDVNSLSQALPGDLSGLFPPLRLILAAARNP 226  
 Db 168 -----LLEDQALAGLSLALLDLSRNLGTISKALQFLSSLOVRLRTENPWR 215  
 Qy 227 CVCPLSWFGPWVRESHVTLASPEETR--CHFPFKNAGRLLLELDYADFGCPATTTATVP 284

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Db 216 CDCAHLGSIWKEGRRLLSSRDKITCAEPPRLALQSLLEVSGLIC-----IP 267
QY 285 TTRPVVREPTALSSSLAPTWSPTAPATRAPSPSTAPPTVGVPOPODCPP--STCLNG 342
Db 268 PSNVV--EPEFTANLGED-LQVACOAGYQP-----LVWRKVPOPRGKQQAQALEG 320
QY 343 GTCHLG-----TRHHLACLPEGPTGLY-CESQMGQCTRPSPFTVTPRPPR 387
Db 321 GAPGLGCHGTRDTGSGMLFLTNITLA-----HAGKYECEANAGKARVPFHLVNASR 374
QY 388 SLTGLI-EVPSPTSLRVLGRLVQLQSSVQLRSLRLTYRNLSPDKELVTI----- 436
Db 375 QOSQQLPQOAPATRPVGHPEOHEAGSMAFRALGLATQTAITAAIALALTALLAAMIC 434
QY 437 -----RLPASLAET-----VTQLRPNATYSVCVW-----PLGPRGRVPE 470
Db 435 RRRRRKKVPASGEGTLFVNDYSDGCTPFAQLLELRDDHGHMFVIDRSKPLFPPEVLP- 493
QY 471 GBEACGEAHTPP 482
Db 494 -EEA--PEHNPP 502

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## RESULT 14

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Q6A073 PRELIMINARY; PRT; 637 AA.
AC Q6A073;
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE MKIAA0405 protein (Fragment).
GN Name=mkIAA0405;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OC NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Brain;
RA Okazaki N., Kikuno R.F., Ohara R., Inamoto S., Koseki H., Hiraoka S.,
RA Saga Y., Seino S., Nishimura M., Kaisho T., Hoshino K., Kitamura H.,
RA Nagase T., Ohara O., Koga H.;
RT "Prediction of the Coding Sequences of Mouse Homologues of KIAA Gene:
RT IV. The Complete Nucleotide Sequences of 500 Mouse KIAA-Homologous
RT cDNAs Identified by Screening of Terminal Sequences of cDNA Clones
RT Randomly Sampled from Size-Fractionated Libraries.";
RL DNA Res. 11:205-218(2004).
DR EMBL; AK172945; BAD32223.1; -.
DR InterPro; IPR003961; FN III.
DR InterPro; IPR008957; FN III-like.
DR InterPro; IPR001611; LRR.
DR InterPro; IPR000483; LRR Cterm.
DR InterPro; IPR000372; LRR Nterm.
DR InterPro; IPR003591; LRR typ.
DR InterPro; IPR001211; PhospholipaseA2.
DR Pfam; PF00041; fn3.1.
DR Pfam; PF01463; LRECT; 1.
DR Pfam; PF01462; LRRNT; 1.
DR Pfam; PF00560; LRR_1; 10.
DR PRINTS; PR00019; LEURICHRPT.
DR SMART; SM00082; LRRCT; 1.
DR SMART; SM00013; LRRNT; 1.
DR SMART; SM00369; LRR typ; 7.
DR PROSITE; PS50853; FN3; 1.
DR PROSITE; PS00119; PA2 ASP; UNKNOWN_1.
FT NON_TER 1
SQ SEQUENCE 637 AA; 9577AD980D67162F CRC64;

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Query Match 10.6%; Score 332; DB 2; Length 637;  
 Best Local Similarity 23.2%; Pred. No. 1.3e-10;  
 Matches 142; Conservative 81; Mismatches 233; Indels 156; Gaps 19;

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QY 7 LLLPLLLALLGPGVQCGSCQSQPQVFTCAQTGGTTVPRDVPDTPVGLYVF----- 60
Db 3 LYLQVSKLLA-----CPSVCRCDR-NFYCNERSLTSPGLGPEGVTVLYLHNQINN 54
QY 61 -----ENGITWLDASSAGLPGQL 80
Db 55 AGFPAPLHNVSQVHTVYLYGNQLDPEFPMNLKPNRVVLIHQENNIQTISRAALAQLLKEE 114
QY 81 LDLSONQIASRLP-----RLLLDLSHNSLLALEPGI---LDTANVEALRLA---G 126
Db 115 LHUDDNISITVGVEDGAPREAI SLKLLFLSKNHLSSVPVGLPVDQLQELAVDENRIAVISD 174
QY 127 LGLQQLD-----EGLFSRLRNLDLDVSDNQLERVPVIRGLRGLTR 168
Db 175 MAFQNLTSRLERLIVDGNLLTNKGIAEGTFSHLTKLKEFSIVRNSLSHPDPDLPFGTH-LIR 233
QY 169 LRLAGNRTIAQLRPEDLAGLALQELDVSNLSIQALPGDLSGLFPRLRLAALARNPNCV 228
Db 234 LYLQDN-QINHILPTAFANLRKLERLDISNNQLRMLTQGVFDHLSNKLQLTARNNPFCD 292
QY 229 CPLSWFGPWRSHVTLASPEETRCHFPKNAGRLLLELDYADFGCPATTTTATVPTTRP 288
Db 293 CSIKKWTEWLKYPSSL-NVRGFMCGQGPQVGRMAVRELNMNLLSCPTTTPGLPVFTTAP 351
QY 289 VVREPTALSSSLAPTWSPTAPATEAPSPSTAPPTVGVPOPODCPPSTCLNGGTCILG 348
Db 352 -----STVSTPTQSPTL-----SVFSPSRGSGVPPAPTPTPSKLPTIPDMDG----- 390
QY 349 TRHHLACLCEGFTGLYCESQMGQCTRPSPPTVTPRPSRLTLGLEPVSPTSRLRVGLQRY 408
Db 391 -----RERVTPISERIQLSIHFNVDTSIQVSWLSL 421
QY 409 LOGSSVQLRSLRLTYRNLSPGDKRLVTLRLPASLAEY-TVTQLRPNATYSVCVMPGLGQR 467
Db 422 FTVMAYKLTWKMGHSLVCG-----IVQERI VSGEKHLSLVNLEPRSTYRICLVPLDAFN 477
QY 468 VPEGEAE-CGEAHTPPA-----VHSNAPVTOAREGNLPLLIAPALAAVLLAALAAVG 519
Db 478 YRTVEDTTCSEATTTHASVILNNGSNTASSHEQTTSMSG-S-PFLLAGLIGGAVIFVLVLL 536
QY 520 AAYC---VRRGR 528
Db 537 SVFCWMMHKKGR 548

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## RESULT 15

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LRR4_HUMAN STANDARD; PRT; 653 AA.
AC Q9HBM1; Q6ZMI8; Q96A85;
DT 25-OCT-2004 (Rel. 45, Created)
DT 25-OCT-2004 (Rel. 45, Last sequence update)
DT 25-OCT-2004 (Rel. 45, Last annotation update)
DE Leucine-rich repeat-containing protein 4 precursor (Brain tumor
DE associated protein LRRC4) (NAG14) (UNQ554/PRO111).
GN Name=LRRC4; Synonyms=BAG;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OC NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Wang J.;
RL Thesis (2000), Zhongshan Medical University / Guangzhou, China.
RN [2]
RP SEQUENCE FROM N.A.
RA Wang J., Bin L., Jiang N., Li G.;
RT "Brain-specific gene, a novel member of leucine rich repeat.";
RL Submitted (FEB-2002) to the EMBL/GenBank/DBJ databases.
RN [3]
RP SEQUENCE FROM N.A.
RX MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;
RA Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D., Bruch J.,
RA Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,

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RA Eaton D., Foster J., Grimaldi C., Gu O., Hass P.E., Heldens S.,  
RA Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,  
RA Lewis L., Liao D., Mark M., Robbie E., Sanchez C., Schoenfeld J.,  
RA Seshagiri S., Simmons L., Singh J., Smith V., Stinson J., Vagts A.,  
RA Vandlen R., Watanabe C., Wileand D., Woods K., Xie M.-H., Yansura D.,  
RA Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A., Wood W.I.,  
RA Godowski P., Gray A.;  
RT "The secreted protein discovery initiative (SPDI), a large-scale  
RT effort to identify novel human secreted and transmembrane proteins: a  
RT bioinformatics assessment";  
RL Genome Res. 13:2265-2270(2003).  
RN [4]  
RP SEQUENCE FROM N.A.  
RX PubMed:14702039; DOI=10.1038/ngl1285;  
RA Ota T., Suzuki Y., Nishikawa T., Otsuki T., Sugiyama T., Irie R.,  
RA Wakamatsu A., Hayashi K., Sato H., Nagai K., Kimura K., Makita H.,  
RA Sekine M., Ohtsuka M., Nishi T., Shibahara T., Tanaka T., Ishii S.,  
RA Yamamoto J.-I., Saito K., Kawai Y., Isono Y., Nakamura Y.,  
RA Nagahara K., Murakami K., Yasuda T., Iwayanagi T., Wagatsuma M.,  
RA Shiratori A., Sudo H., Hosoiri T., Kaku Y., Kodaira H., Kondo H.,  
RA Sugawara M., Takahashi M., Kanda K., Yokoi T., Furuya T., Kikkawa E.,  
RA Omura Y., Abe K., Kamihara K., Katsuta N., Sato K., Tanikawa M.,  
RA Yamazaki M., Ninomiya K., Ishibashi T., Yamashita H., Murakawa K.,  
RA Fujimori K., Tanai H., Kimata M., Watanabe M., Hiraoka S., Chiba Y.,  
RA Ishida S., Ono Y., Takiguchi S., Watanabe S., Hosoda T.,  
RA Kusano J., Kanehori K., Takahashi-Fujii A., Hara H., Tanase T.-O.,  
RA Kusano Y., Togiani S., Komai F., Hara R., Takeuchi K., Arita M.,  
RA Imose N., Musashino K., Yuuki H., Oshima A., Sasaki N., Aotsuka S.,  
RA Yoshikawa Y., Matsunawa H., Ichihara T., Shiohara N., Sano S.,  
RA Moriya S., Momiyama H., Satoh N., Takami S., Terashima Y., Suzuki O.,  
RA Nakagawa S., Senoh A., Mizoguchi H., Goto Y., Shimizu F., Wakebe H.,  
RA Hishigaki H., Watanabe T., Sugiyama A., Takemoto M., Kawakami B.,  
RA Yamazaki M., Watanabe K., Kumagai A., Itakura S., Fukuzumi Y.,  
RA Fujimori Y., Komiyama M., Tashiro H., Tanigami A., Fujiwara T.,  
RA Ono T., Yamada K., Fujii Y., Ozaki K., Hirao M., Ohmori Y.,  
RA Kawabata A., Hikiji T., Kobatake N., Inagaki H., Ikema Y., Okamoto S.,  
RA Oktani R., Kawakami T., Noguchi S., Itoh T., Shigeta K., Senba T.,  
RA Matsumura K., Nakajima Y., Mizuno T., Morinaga M., Sasaki M.,  
RA Togashi T., Oyama M., Hata H., Watanabe M., Komatsu T.,  
RA Mizushima-Sugano J., Satoh T., Shirai Y., Takahashi Y., Nakagawa K.,  
RA Okumura K., Nagase T., Nomura N., Kikuchi H., Masuho Y., Yamashita R.,  
RA Nakai K., Yada T., Nakamura Y., Ohara O., Isogai T., Sugano S.;  
RT "Complete sequencing and characterization of 21,243 full-length human  
RT cDNAs";  
RL Nat. Genet. 36:40-45(2004).  
CC -!- SUBCELLULAR LOCATION: Type I membrane protein (Potential).  
CC -!- SIMILARITY: Contains 1 immunoglobulin-like domain.  
CC -!- SIMILARITY: Contains 9 leucine-rich (LRR) repeats.  
CC -----  
CC This SWISS-PROT entry is copyright. It is produced through a collaboration  
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CC or send an email to [license@isb-sib.ch](mailto:license@isb-sib.ch)).  
CC -----  
DR EMBL; AJ297858; CAC82651.1; -;  
DR EMBL; AF196976; AAG28019.2; -;  
DR EMBL; AY58307; AAO88674.1; -;  
DR EMBL; AK172751; BAD18737.1; -;  
DR HSRP; Q9B2K6; IP8T.  
DR Genew; HGNC:15586; LRRC4.  
DR InterPro; IPR007110; Ig-like.  
DR InterPro; IPR001611; LRR.  
DR InterPro; IPR000372; LRR N-term.  
DR InterPro; IPR003591; LRR\_type.  
DR Pfam; PF00047; Ig; 1.  
DR Pfam; PF00560; LRR; 9.  
DR PRINTS; PF01462; LRRNT; 1.  
DR PROSITE; PR00019; LEURICHRPT.  
DR PROSITE; PS50835; IG\_LIKE; 1.  
KW Glycoprotein; Immunoglobulin domain; Leucine-rich repeat; Repeat;

KW Signal; Transmembrane.  
FT SIGNAL 1 38 Potential.  
FT CHAIN 39 653 Leucine-rich repeat-containing protein 4.  
FT DOMAIN 39 527 Extracellular (Potential).  
FT TRANSMEM 528 548 Potential.  
FT DOMAIN 549 653 Cytoplasmic (Potential).  
FT REPEAT 74 97 LRR 1.  
FT REPEAT 98 121 LRR 2.  
FT REPEAT 122 145 LRR 3.  
FT REPEAT 146 169 LRR 4.  
FT REPEAT 171 194 LRR 5.  
FT REPEAT 195 216 LRR 6.  
FT REPEAT 217 240 LRR 7.  
FT REPEAT 242 264 LRR 8.  
FT REPEAT 265 288 LRR 9.  
FT DOMAIN 353 442 Ig-like.  
FT DOMAIN 455 526 Thr-rich.  
FT DISULFID 374 424 By similarity.  
FT CARBOHYD 277 277 N-linked (GlcNAc...) (Potential).  
FT CARBOHYD 322 322 N-linked (GlcNAc...) (Potential).  
FT CARBOHYD 363 363 N-linked (GlcNAc...) (Potential).  
FT CARBOHYD 388 388 N-linked (GlcNAc...) (Potential).  
FT CARBOHYD 410 410 N-linked (GlcNAc...) (Potential).  
FT CARBOHYD 434 434 N-linked (GlcNAc...) (Potential).  
FT CARBOHYD 440 440 N-linked (GlcNAc...) (Potential).  
FT CARBOHYD 447 447 N-linked (GlcNAc...) (Potential).  
FT CARBOHYD 450 450 N-linked (GlcNAc...) (Potential).  
FT CONFLICT 4 4 L -> S (in Ref. 4).  
FT CONFLICT 253 257 QVSLI -> H (in Ref. 1).  
FT CONFLICT 300 300 N -> D (in Ref. 4).  
FT CONFLICT 315 315 L -> F (in Ref. 4).  
SQ SEQUENCE 653 AA; 72717 MW; 38159C81F6850E37 CRC64;

Query Match  
Best Local Similarity 10.5%; Score 330; DB 1; Length 653;  
Matches 159; Conservative 82; Mismatches 245; Indels 168; Gaps 25;  
Qy 7 LLLPLLLL-----LALPGVQGPSCGQCQS-QPOTVCTARQGTTPRDRPDPD 53  
Db 17 ILLPVLVTAQVWTLCAIAAASAGPQCNSVCSCNSQNFVKVCTRRGLSEVPQIGPSN 76  
Qy 54 TVGLYVFENGITWLDASSFAGLPGQLLDLSONQIASLR-----LPLLLDLSHNSLL 107  
Db 77 TRYLNLMNNIQMTQADTFRHLHLEVLQGRNSIRQIEVGAFNGLASLNTLELFDNWL 136  
Qy 108 ALEPGILDAN-----VEALRLAGLG-----LQQLDEGLFSRLR 141  
Db 137 VIPSGAFYLSKULRELNRNPIESIPYAFNRVPSLWRLDLGELKKLEYISEGAFEGLF 196  
Qy 142 N-----LHLDVSDNQLERV-PPVIRGLGRLRLRAGNTRIA 178  
Db 197 NLKYLNLGMCNIKDPNLTPLVGLLEEMSGNHFPFIRPGSFHGLSLSLKLVWM-NSQVS 255  
Qy 179 QLRPEDLAGLAALQELDVSNLSQALPGDLGSLPRLRLAAA---RNPENCVCPLSWFG 235  
Db 256 LIERNADFGASLVLLAHNNLSLEPHD---LFTPLRYLVLLHHLHNFNWCDCDILMLA 312  
Qy 236 PWRESHVTLASPBETRCHFPKPKNAGRLILLELDYADFQCPATTTTATVPTTPRVVREPTA 295  
Db 313 WWLRE-YIPTNSTCCGRCHAPMHRGRYLVEVDQASFOCSA-----PFIMDAPRLNI 364  
Qy 296 LSSSLAPTWSPTAPATEAPSPSTAPTPVGP-----VPQDQCPSTCLNGGTCILGTRH 351  
Db 365 SEGRMA-----ELKCRTPPMSSVKVLLPNGTIVLSHSHRHPRIISVINDGT--LNF 413  
Qy 352 HLACLCPEGFTGLYCSEGMQGTREPTPTVTPRPSRLTLGIEPVSPTSLRVLQRYLQ 411  
Db 414 VLL-----SDTGVY-----TCMVTNVAGNS---NASAYLNV 441  
Qy 412 SSVQLRSLRTRYRLNSLGGDKELVTLRLPASIAEYTVTLQLRPNATYSCVCM 462  
Db 442 STAEIANTSNYSFFT-----TVTVETTEISPEDTRKYPVPTSTGYQPAYTTSTTVL 494





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